



The Printer Working Group

**Cloud Imaging Model Working Group
Face-to-Face Meeting**

Aug 7th , 2013

Camas, WA (hosted by Sharp)

Agenda



When	What
1:30 – 1:45	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-20130729.pdf
1:45 – 2:15	Status and Issues
2:15 – 3:00	Cloud Imaging Requirements and Model Review Section 1-3 rewrite What is 'in-scope'?
3:00 – 3:15	Break
3:15 – 3:30	Registration
3:30 – 4:15	Sequences
4:15 – 4:45	Operations
4:45 – 5:00	Next Steps



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.
- Workgroup Projects have been:
 - 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. Project was transferred to the Semantic Model Working Group.
 - Cloud Printing Requirements and Model, defining the reference model, terminology, and requirements for Cloud Printing. This project was 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 & Issues

- Cross mapping documents
 - Intended to help standardize existing Cloud Imaging applications by correlating Job Ticket and Service Capabilities structures to PWG SM
 - Transferred to SM group when scope enlarged; but there has been little progress made, even on Version 1.
 - From a Cloud perspective, is the lack of a mapping document a problem? If so, what action is appropriate?
- Cloud Imaging Requirements and Model Specification
 - Sections 1-3 have been again edited to consider comments from Glen
 - Introduction to Model section has been reviewed in conference calls
 - Approach to registration has been discussed, without consensus
 - No work has been done on Sequences
 - No further work has been done on Operations
 - Completion by end of 2013 seems unlikely



Status & Issues

- Content Issues
 - Does the Copy Service exist as an independent Service or as a Print Service function?
 - Multitude of opinions on registration. What is registered?
 - Does the SM GetSystemElements operation provide access to elements directly under Services, SystemConfiguration, SystemDescription, and SystemStatus? Does it also provide access to elements under a specific Service (other than SystemControlService)?
 - Should Cloud Model operations follow Semantic Model or IPP?
 - Multitude of Security issues are deferred to IDS; but IDS has not been very active. Is this a problem to proceeding with the Model?
- Staffing Issues
 - Larry Upthegrove has ceased participation and contributions
 - Although there have been several contributors of critical comments and objections, there are no contributors of substantive content
 - Although Bill Wagner has no objection to continue with formatting and minor editing, it is not in his best interests nor those of the project for him to serve as primary author.



Review of Requirements and Model

- Draft at:

<ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20130730.pdf>

<ftp://ftp.pwg.org/pub/pwg/cloud/wd/wd-cloudimagingmodel10-20130730.docx>

- What is In-scope?
 - User Association/registration?
 - Device Registration (or is it Service registration, or both)?
 - Cloud Management of the Device/Services?
 - Device (or Proxy) reporting of Cloud Service Parameters?



Registration Steps ?

- Device Owner provides information to the Proxy on what Services/Elements of what device are to be registered with what Services of what Cloud Imaging System.
- The proxy establishes a connection to the Cloud System Control Service and provides an initial Update System Elements message. This message provides information on all System Elements of the Device that are to be made known to the Cloud Imaging System, including Device Services. The Cloud Imaging Control Service responds with information on selected elements of the Cloud Imaging System, including Services corresponding to those reported in the Device.
- The proxy establishes connection to each Device-owner identified Cloud Imaging Service and identifies the elements of each Device Imaging Service that are to be made available to it by sending an initial Update Service Elements. Each Cloud Imaging Service responds with acceptance or rejection.
- The Proxy updates select System and Service Elements as necessary and checks Cloud Imaging Services for job data.



What Sequences?

- Registration
- Print Attached Document
- FaxOut from Hardcopy
- Print by Reference
- Scan
- FaxIn
- Copy
- Transform
- Paper Out Exception
- Scanner Failure
- Document Data Access Failure
- Client Cancel
- Downstream Abort or Cancel
- Proxy Communication Failure



What Operations?

- Any Additional Client Operations? Any to be omitted?
- Any Additional Proxy Operations? Any to be omitted?



Next Steps

- Do we continue with Cloud Imaging Requirements and Model Specification?
- Additional Contributors ?
- Do we adhere to Semantic Model ...strictly?
- How do we resolve concept differences?
 - Find compromise
 - Provide for all approaches
 - Select one approach by consensus
 - Just follow IPP SIX
- Schedule:
 - Objective for next Face-to-face?
 - PWG Last Call of Cloud Imaging Requirements and Model – ?
- **Next Conference Call**



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