



Cloud Printing BOF

December 8, 2010

Irvine, CA

PWG F2F Meeting

Introduction



- Cloud-based applications and solutions are increasingly common
- Cloud-based printing is emerging in several different forms
- Adopting standard protocols or schemas now will help interoperability and speed adoption
- Also important to understand and address privacy, security, and legal issues/implications
- Currently *not* focused on doing any new specifications, but rather investigating how the PWG can support cloud printing

Resources



- Cloud printing mailing list:
 - cloud@pwg.org
 - <https://www.pwg.org/mailman/listinfo/cloud>
- Cloud printing wiki:
 - <http://pwg-wiki.wikispaces.com/Cloud+Printing>

Definitions



- Cloud; an on-demand shared computing resource available over a network, typically the public Internet or a company's private intranet
- Cloud Printing; any solution that connects a Client to a Printer through a shared Cloud Print Provider
- Cloud Print Provider; the software component that manages printing between Clients and Cloud Print Managers
- Cloud Print Manager; the software component that implements the interface between the Cloud Print Provider and Printer

Definitions (con't)



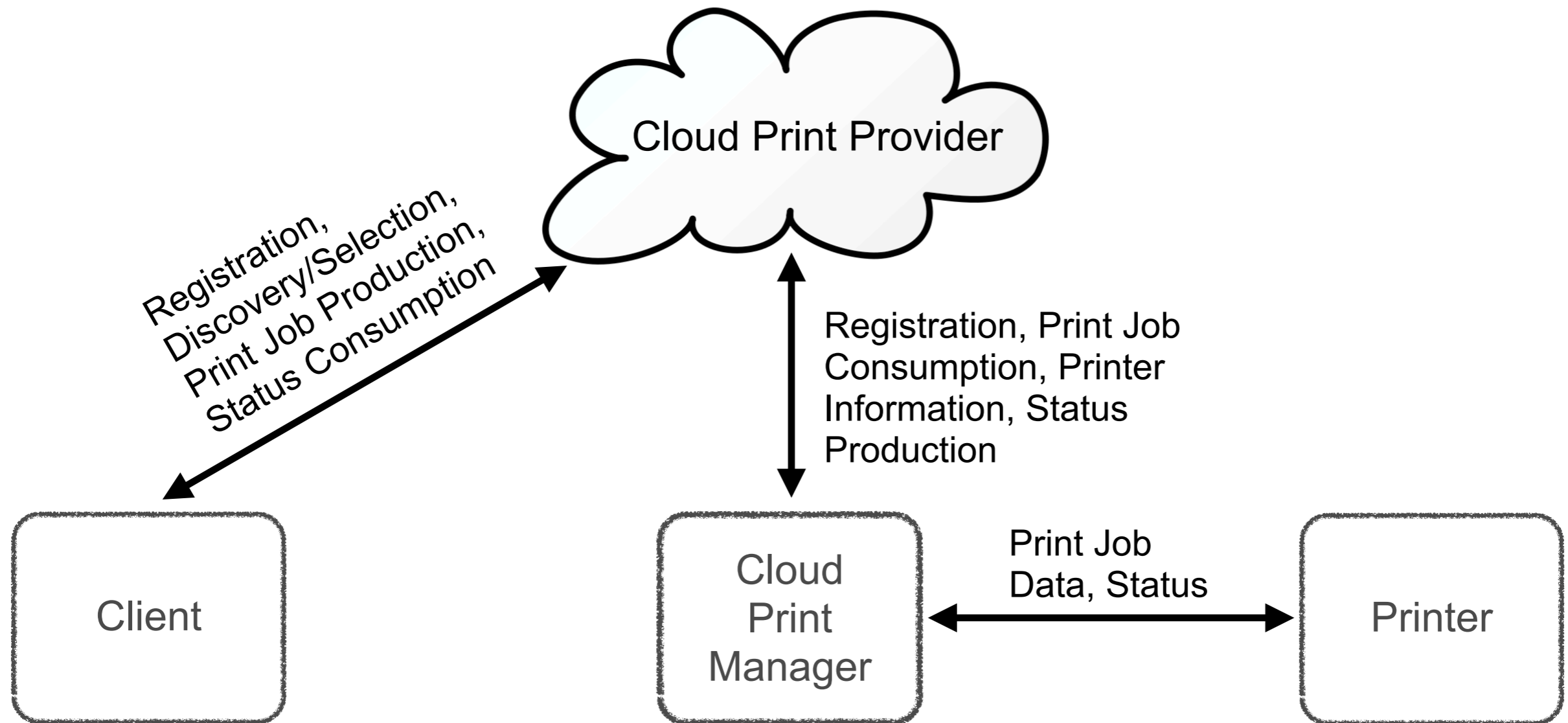
- Client; standard IPP definition
- Printer; standard IPP definition
- Registration; process by which a Client or Cloud Print Manager associates itself with the Cloud Print Provider
- Discovery; process by which a Client finds candidate Printers for a subsequent print job

Common Issues

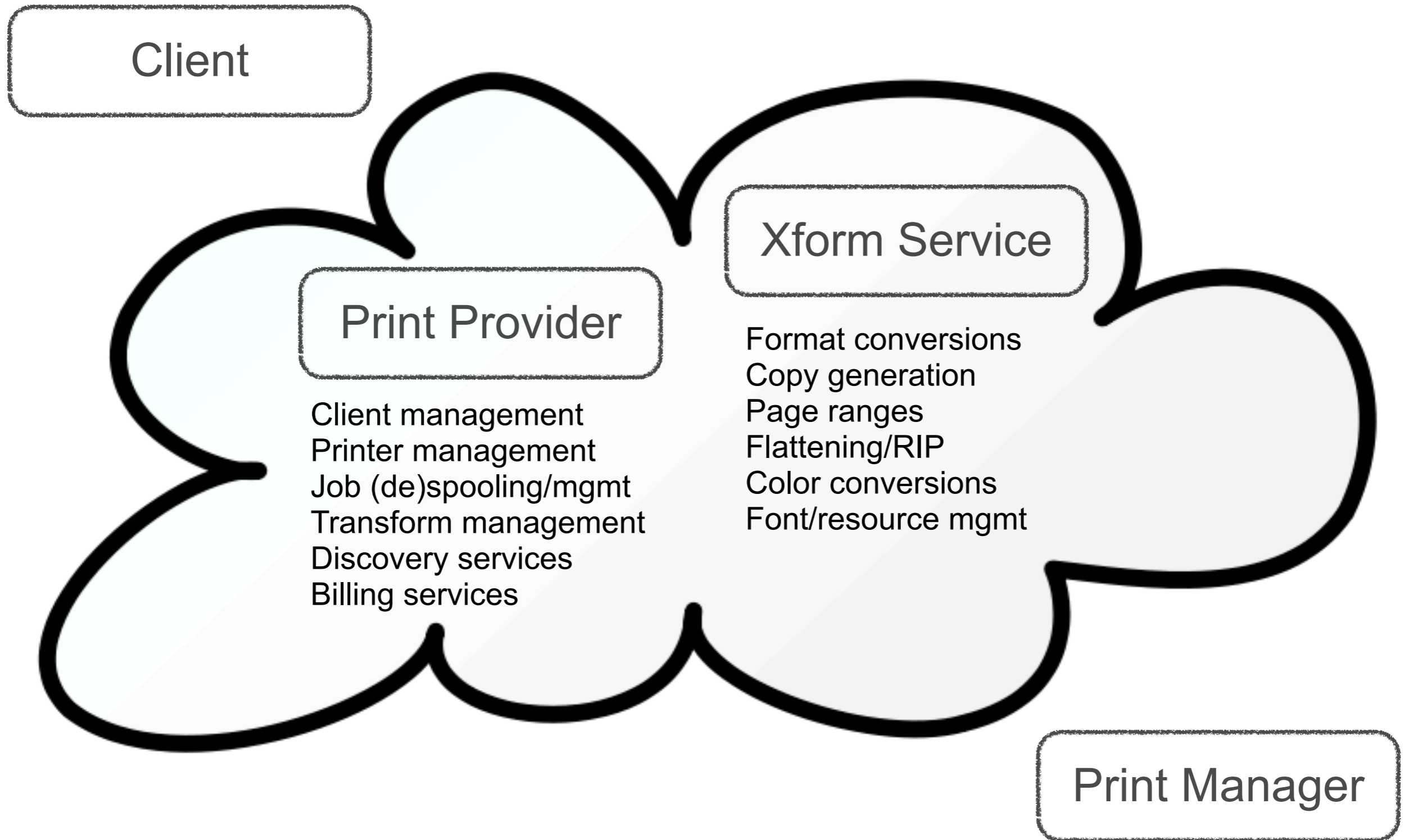


- Discovery and management of available printers/services
- Transport of document/print data
- Management of job ticket information
- Document formats
- Interoperability
- Security
- Privacy
- Logging

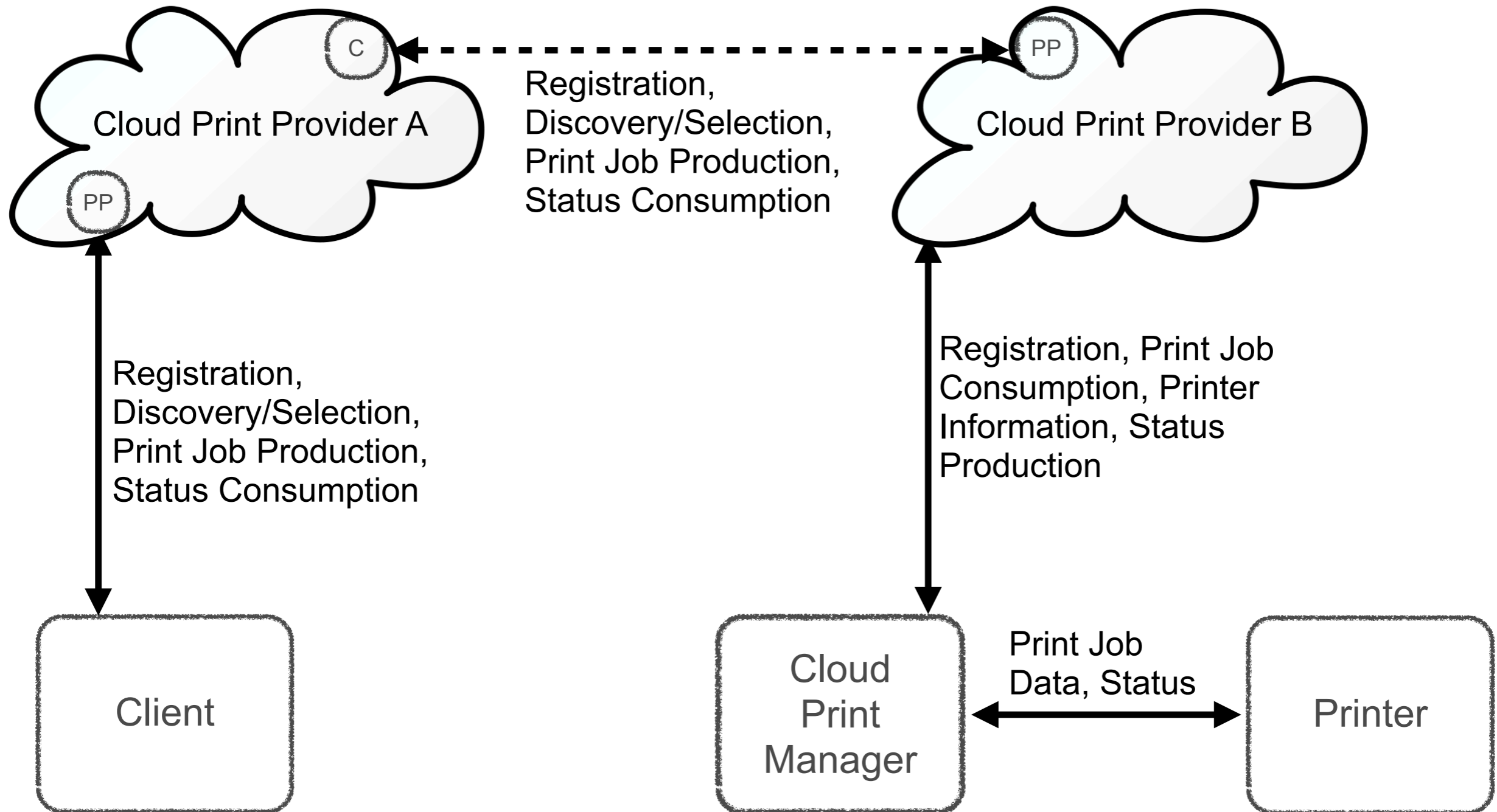
Functional Model



Functional Model - Cloud Printer

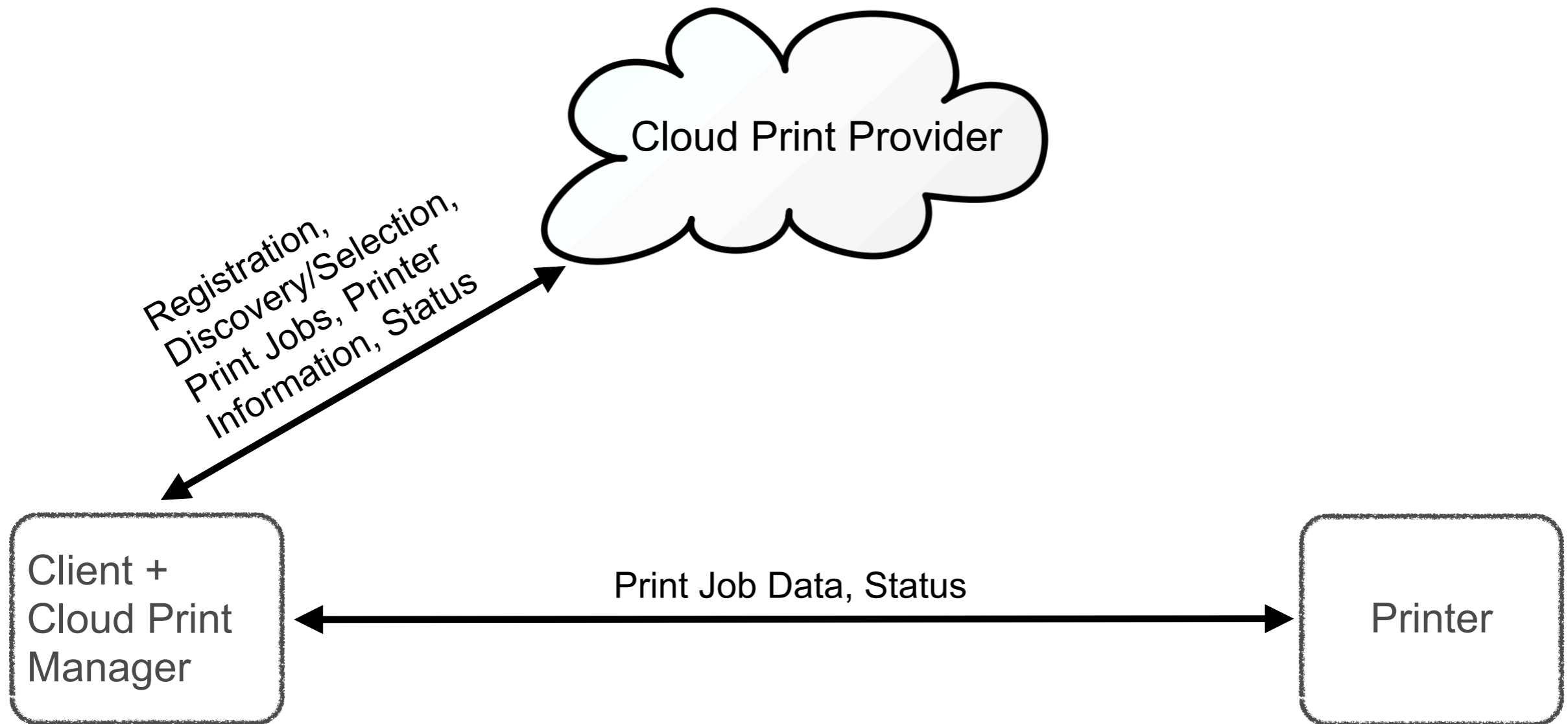


Functional Model - Multi-Cloud



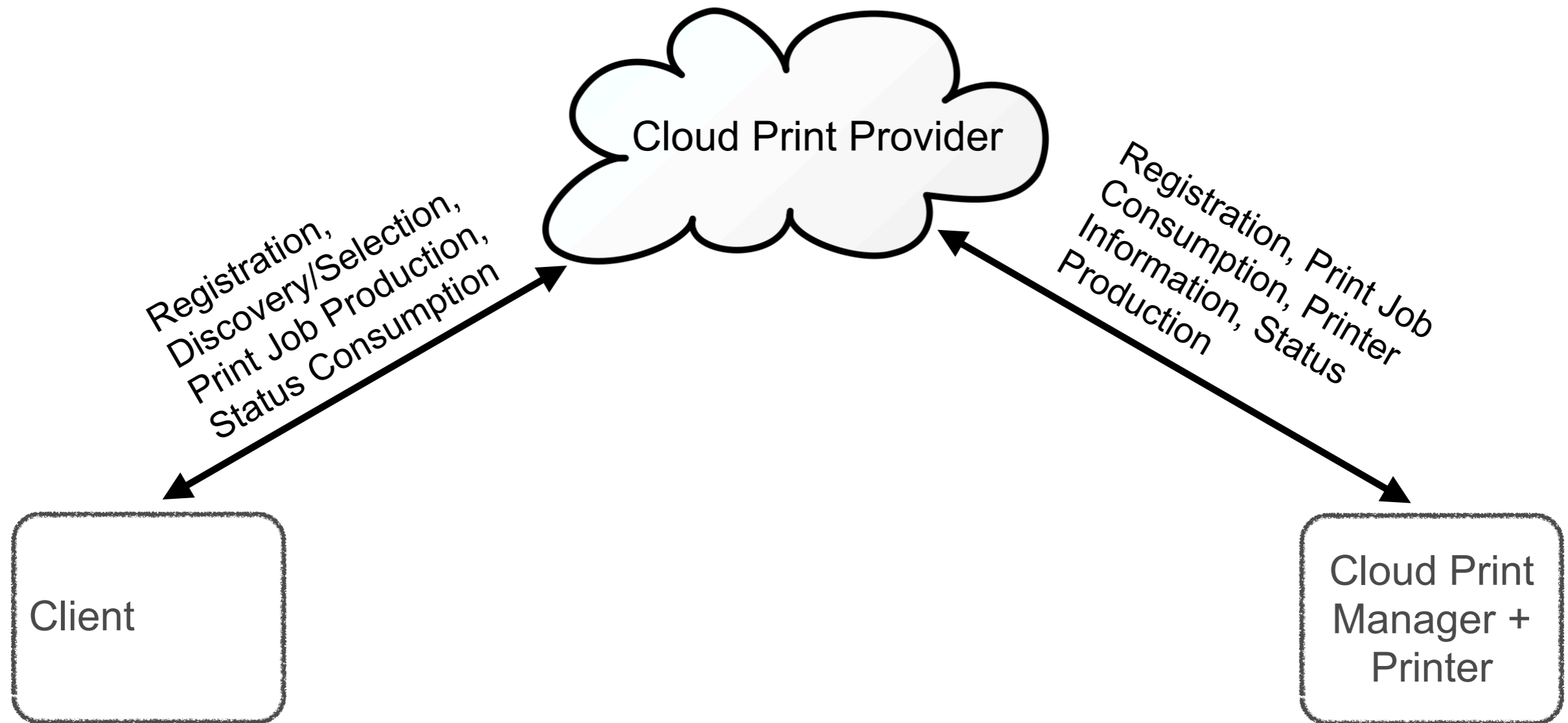
Use Cases/Scenarios

Client as Cloud Print Manager



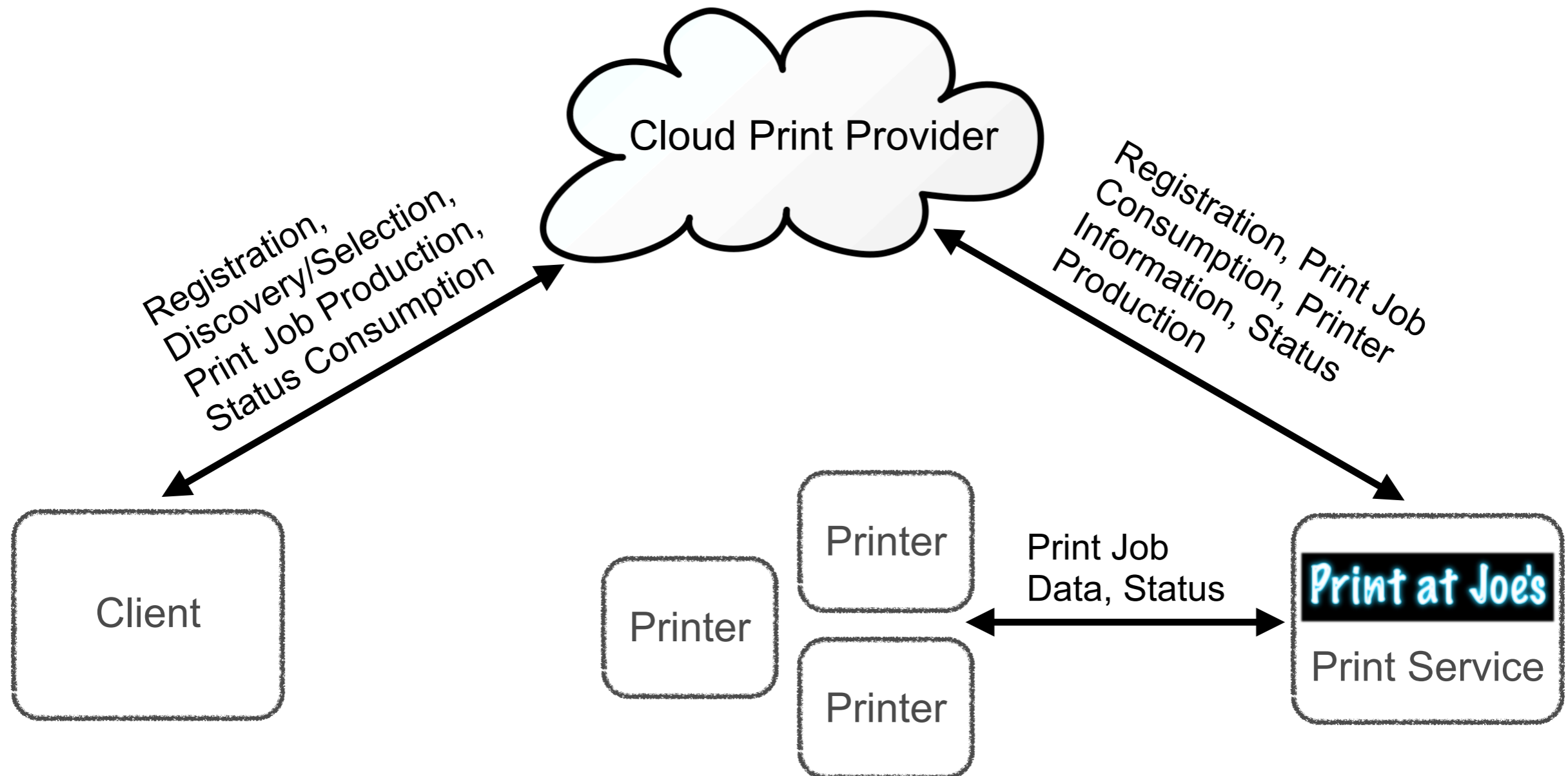
Use Cases/Scenarios

Printer as Cloud Print Manager



Use Cases/Scenarios

Pay-for-Print Service as Cloud Print Manager



IPP Everywhere Questions



- Client:
 - How do registration and discovery work?
 - Do print job creation and status monitoring use IPP with the Cloud Print Provider?
- Printer:
 - How do registration and discovery work?
 - How are jobs transferred from Cloud Print Provider to Printer?
 - How is status relayed from Printer to Cloud Print Provider?

Open Discussion
