

# Cloud Printing BOF

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8 December 2010

Irvine, CA - PWG F2F Meeting

# Introduction

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- 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

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

# Definitions

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- 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

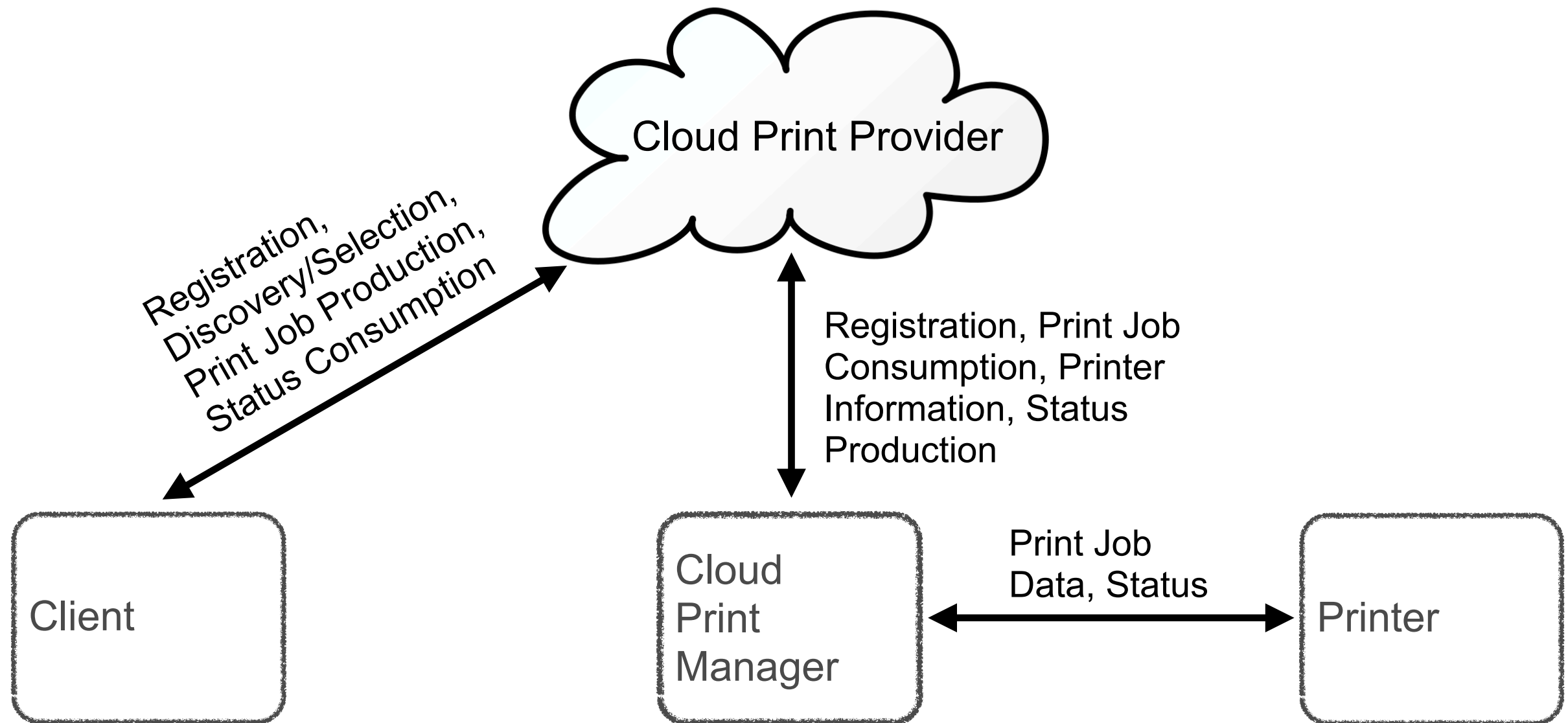
# Definitions (con't)

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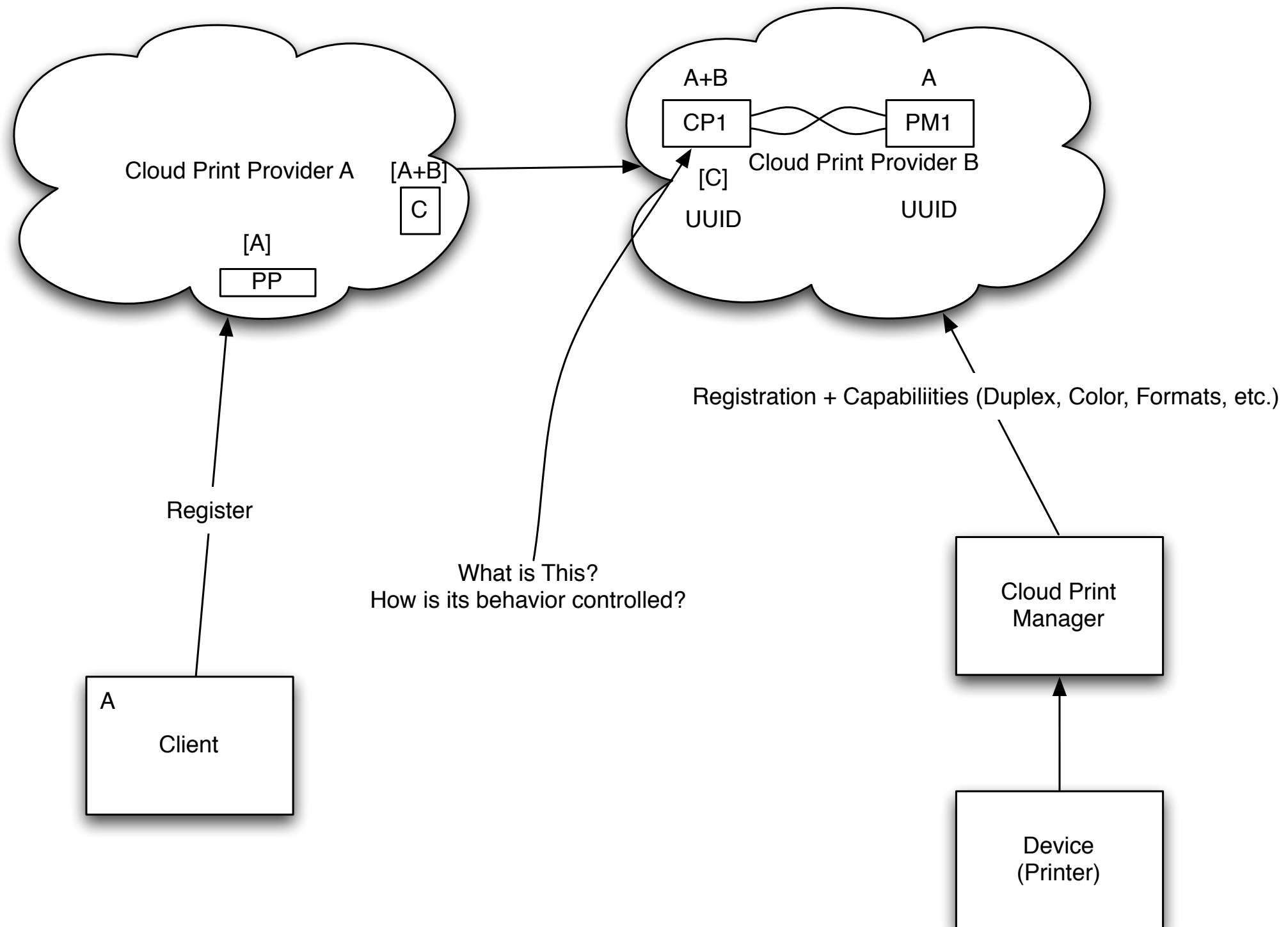


- Client; standard IPP definition
- Printer; standard IPP definition
- Registration; process by which a Client or Cloud Print Manager associates itself with the Cloud Print Provider
- Discovery; process by which a Client finds candidate Printers for a subsequent print job

# Functional Model

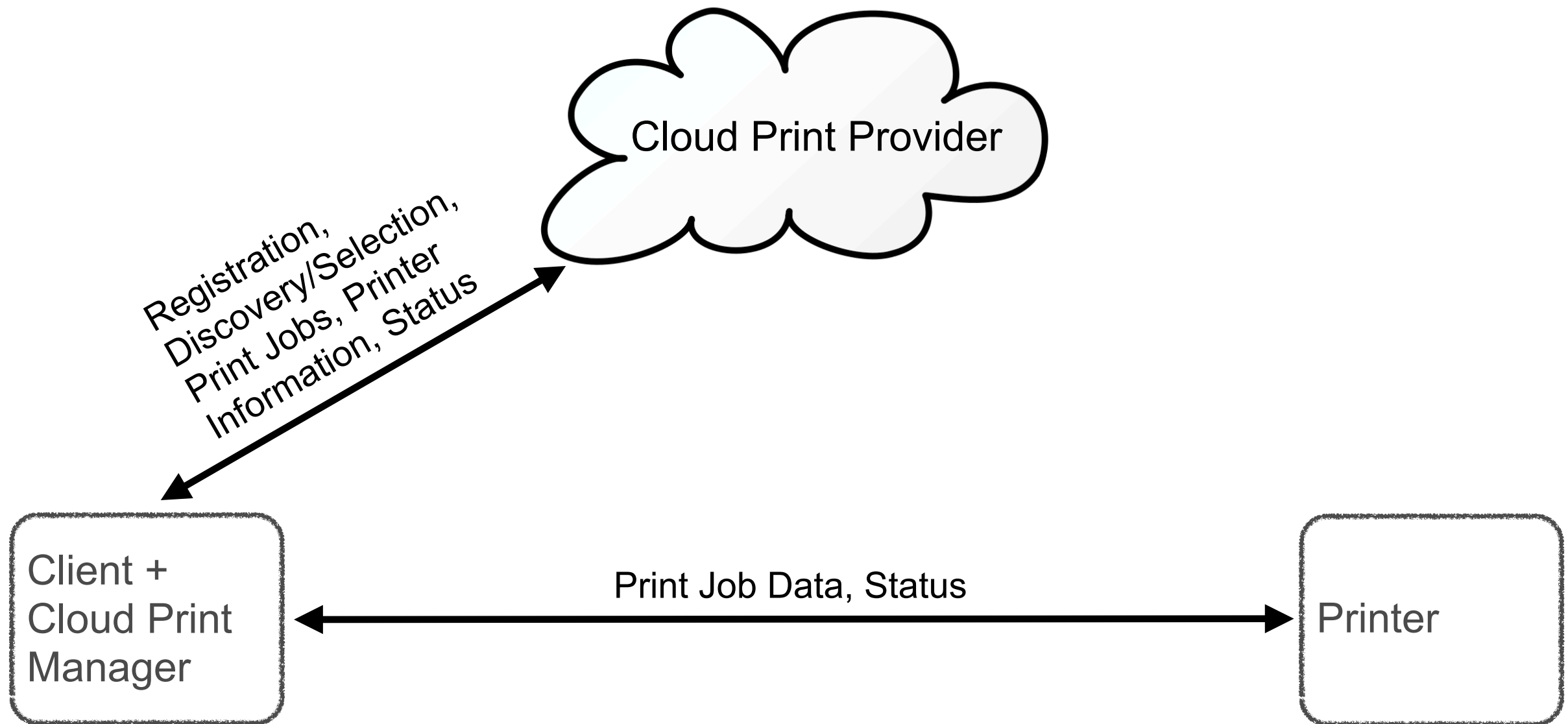


# Relay Functional Model



# Use Cases/Scenarios

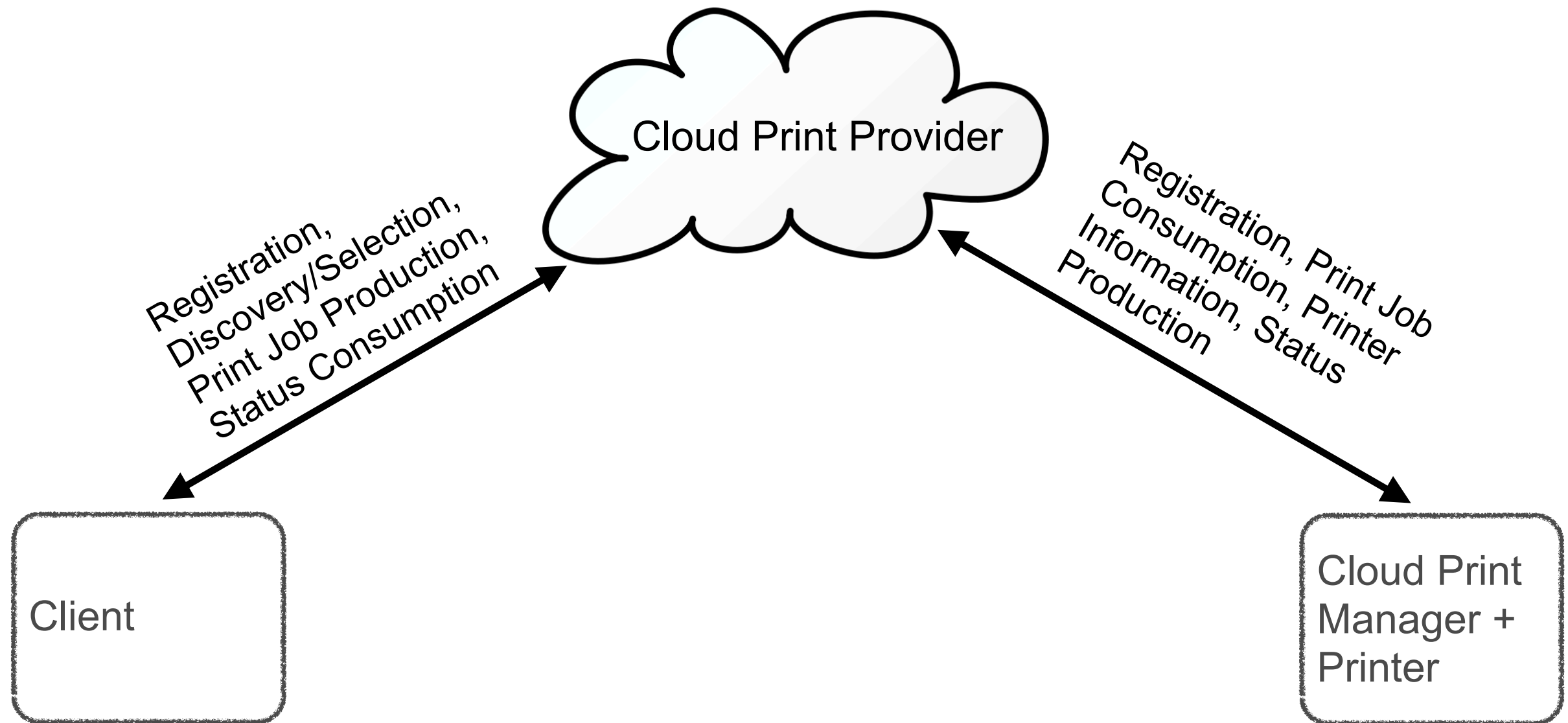
## Client as Cloud Print Manager





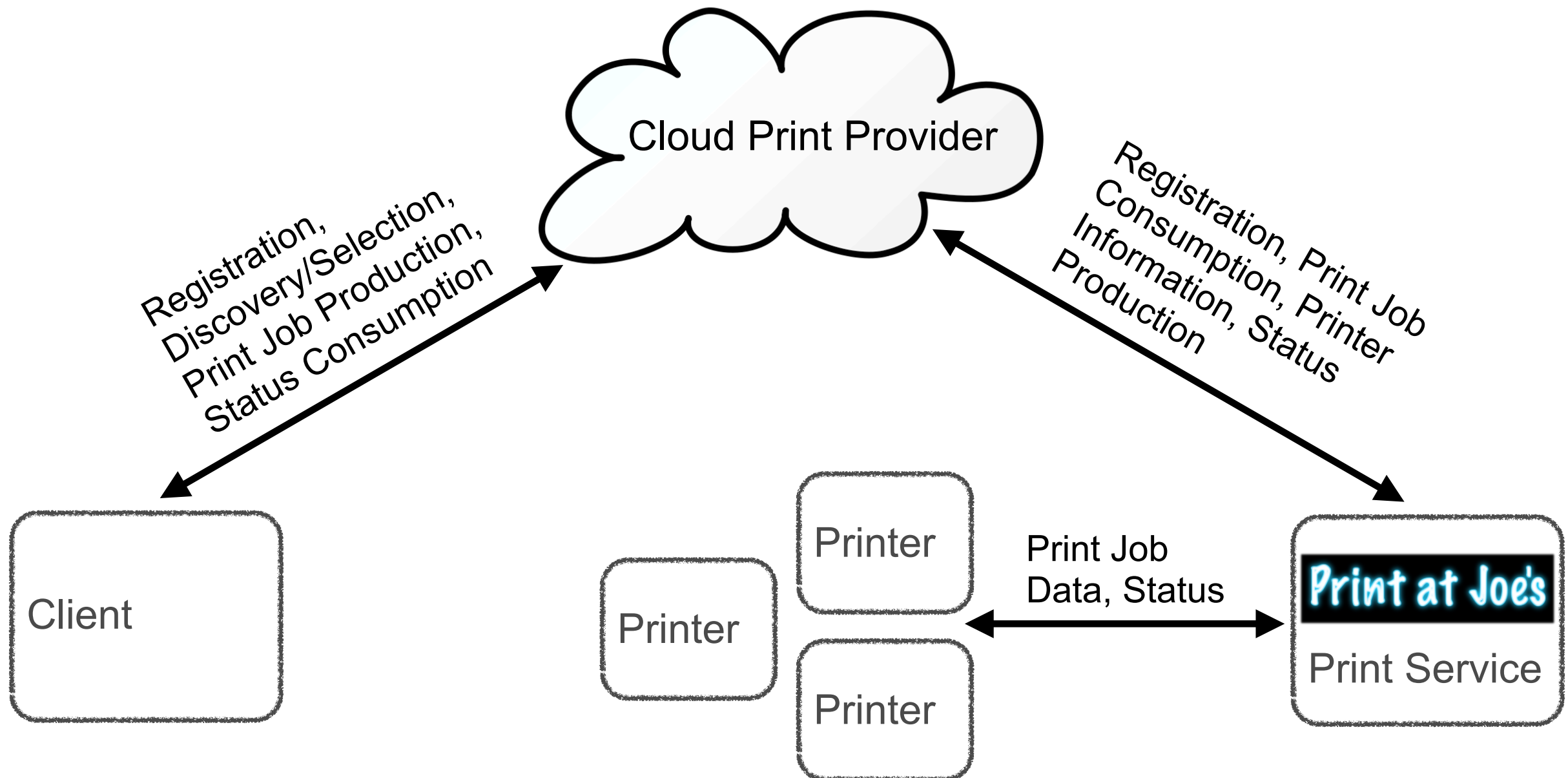
# Use Cases/Scenarios

## Printer as Cloud Print Manager



# Use Cases/Scenarios

## Pay-for-Print Service as Cloud Print Manager



# Common Issues

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

# Discussion

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