Cloud Printing BOF

4 August 2010

Bagsværd, Denmark - 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
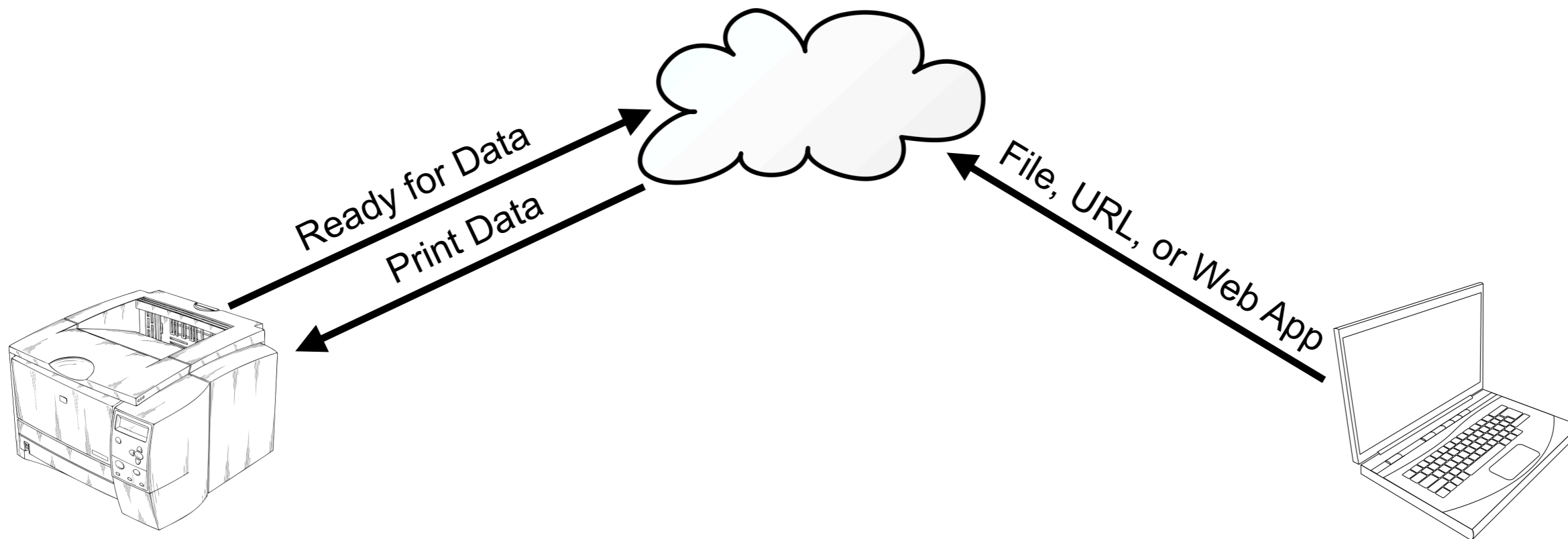
Resources
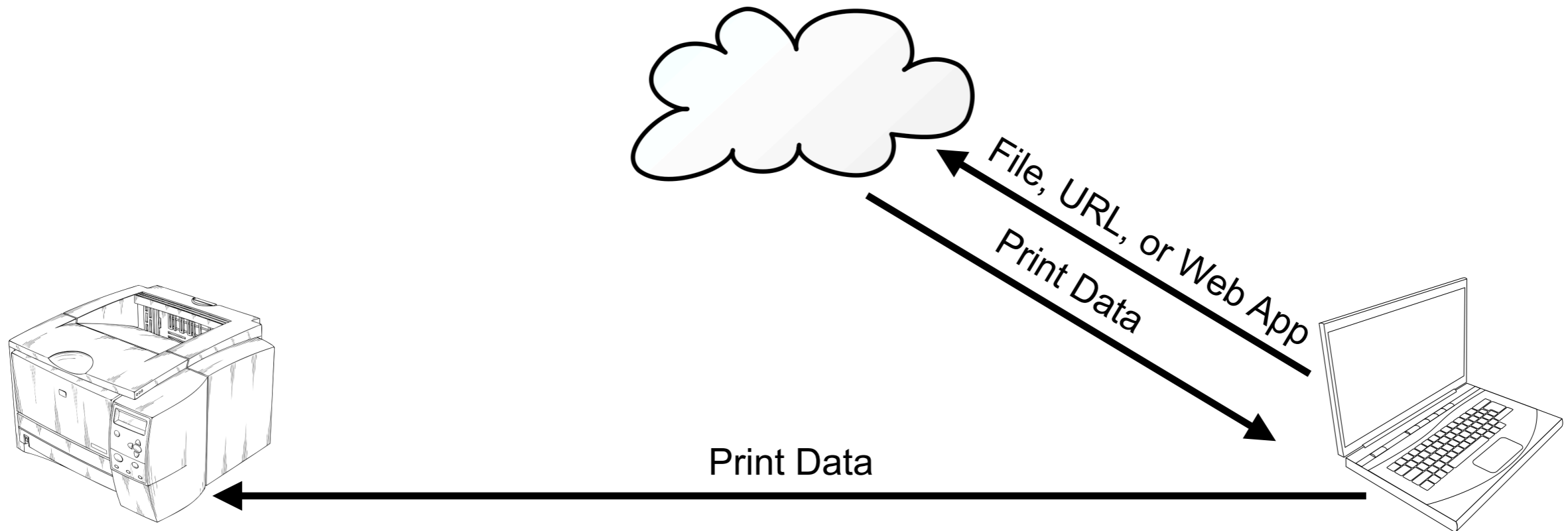
- Cloud printing mailing list:
  - cloud@pwg.org
  - https://www.pwg.org/mailman/listinfo/cloud
- Cloud printing wiki:
  - http://pwg-wiki.wikispaces.com/Cloud+Printing

Use Cases/Scenarios

Cloud Relays to Printer

Use Cases/Scenarios

Cloud Relays to Client

File, URL, or Web App

Print Data

Print Data

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

Previous Discussion

- Cloud printing support can be in printer or supplied by desktop "proxy" software
- Printers (or the proxy) generally register (sign-in) to cloud service
  - Printer and cloud service need GUIDs
  - Cloud credentials can be entered on the printer or via cloud UI (e.g. enter printer serial number)
  - Registration provides capabilities and status of the printer
  - Authentication issues: user/pass or PKI?
  - TCG/TNC/etc. may have solutions/template we can use
  - Basically requires SSL/TLS for privacy and trust
  - Geolocation information useful

Previous Discussion

- Event notifications go both ways - "job available" from the cloud to printer/proxy, printer status from the printer to the cloud

- Localization issues for capabilities and UI

- Important to separate job ticket from print data

- May want to define a reference model for cloud printing

Discussion