Authentication for Web Services

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A brave new world

• Increasing number of web service APIs and mashups built everyday
• To provide greater value, mashups will need access to personal data
• Want to distinguish legitimate mashups from phishing sites
  – Should not ask for a 3rd party username/password
Third Party Authentication

- Pseudonymous delegation

(Hypothetical examples)

foo@developer1.com

bar@developer2.com

drew.dean@yahoo.com
Third Party Authentication

- Revocation

foo@developer1.com
bar@developer2.com

Old pw: baz
New pw: qux

drew.dean@yahoo.com

Mail
News

foo@developer1.com
bar@developer2.com
Third Party Authentication

- Opaque Identifiers

foo@developer1.com

bar@developer2.com

0x12345678

drew.dean@yahoo.com

0x9ABCDEF0

Mail

News

foo@developer1.com

bar@developer2.com
Summary

• Three issues that are important to Yahoo!
  – Pseudonymous delegation of partial rights
  – Revocation on Yahoo! password change
  – Opaque Identifiers