

Protect

Can privacy terms be negotiated
in Solid's personal datastores?

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Privacy and the impact of data protection laws

Personal data



Laws

GDPR – General Data Protection Regulation

CCPA – California Consumer Privacy Act

LGPD - Brazilian General Data Protection Law

Controllers

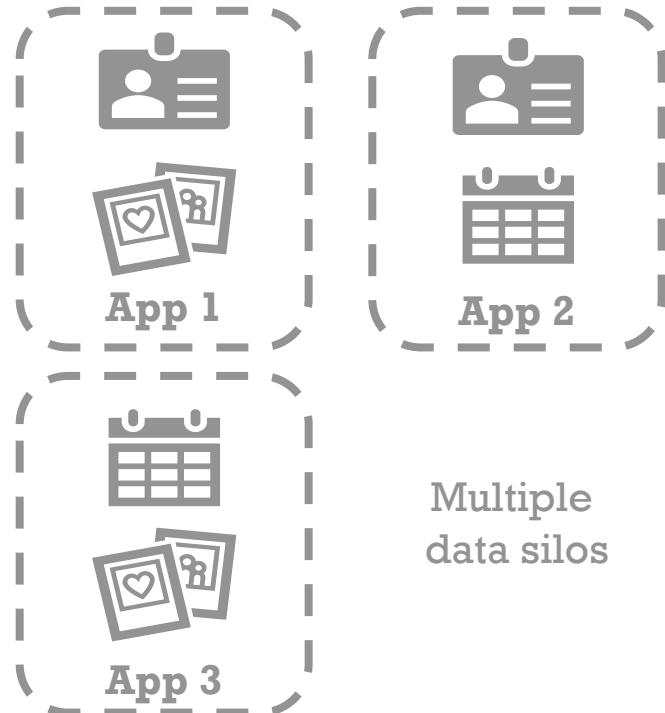


Privacy Term: items of information that need to be specified to represent concepts related to the preferences and rights of data subjects and to the policies and obligations of data controllers regarding privacy and personal data protection.



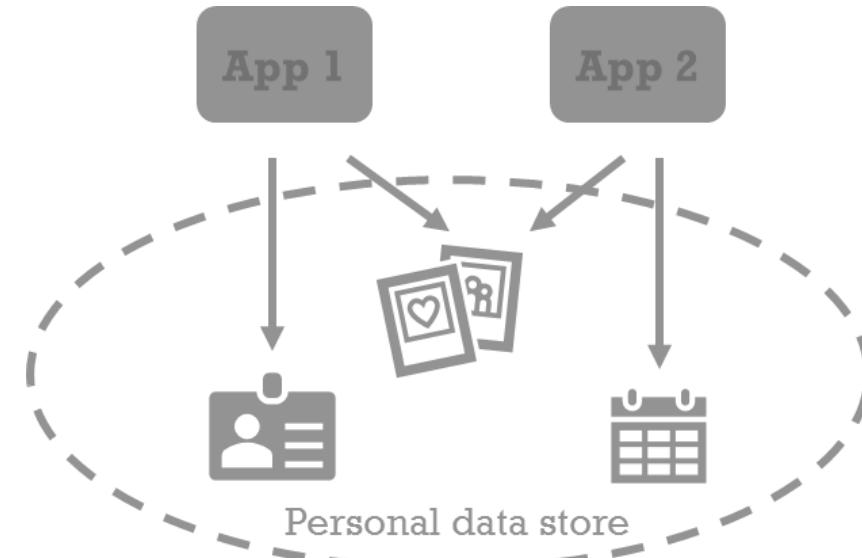
Centralized / decentralized systems

Centralized Web services



Examples: Facebook, LinkedIn, Twitter, ...

Decentralized Web services



Examples: Solid, Hub of All Things, Meeco



Solid – Access Control Authorizations



Solid

Beatriz has full access to one of her web resources,
located at <https://beatriz.databox.me/docs/file1>.

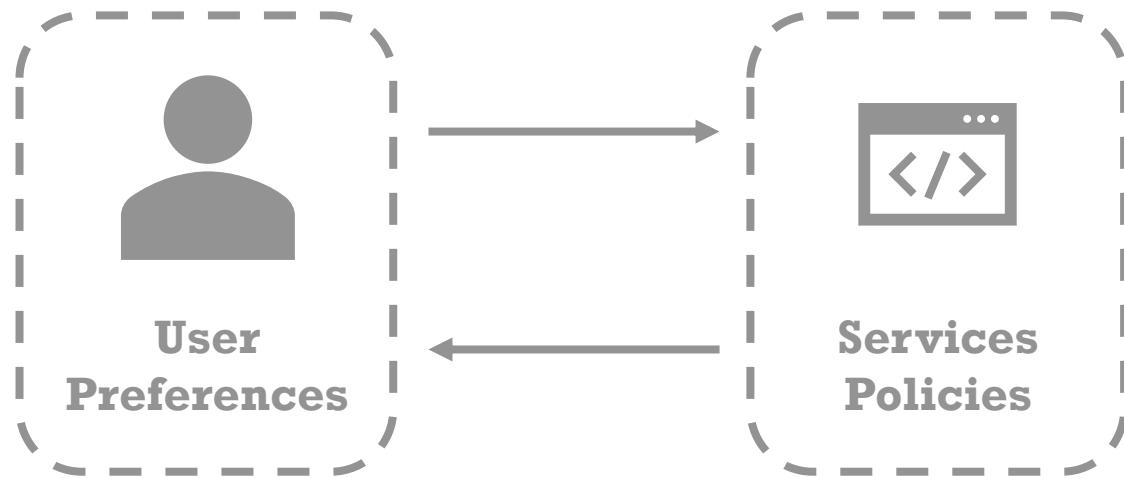
```
<#authorization1>
  a acl:Authorization;
  acl:agent <https://beatriz.databox.me/profile/card#me>;
  acl:accessTo <https://beatriz.databox.me/docs/file1>;
  acl:mode acl:Read, acl:Write, acl:Control.
```

```
:policy-1 a odrl:Policy ;
  odrl:permission [
    a odrl:Permission ;
    odrl:assigner <https://beatriz.databox.me/profile/card#me>;
    odrl:target dpv:Contact ;
    odrl:action acl:Read ;
    odrl:constraint [
      odrl:leftOperand dpv:Purpose ;
      odrl:operator odrl:isA ;
      odrl:rightOperand dpv:ResearchAndDevelopment
    ]
  ] .
```

Beatriz gives read-only permission to
her Contact information for R&D



Negotiation of privacy terms



Automation: Reasoning / inferences over machine readable policies

There are cases where human intervention is needed:

- i. I want to be notified every time a service wants my data for research;
- ii. I want to be notified if someone wants access to my financial data;
- iii. The service needs explicit consent from the user.



Challenges

Complexity of ODRL policies

Correctness and validity

Global and jurisdictional components

Consent

Protect

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Thank you!

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