446 HOLD FedCM

The why*, what, who and when

@goto

* for details, see TPAC 2020

Why?

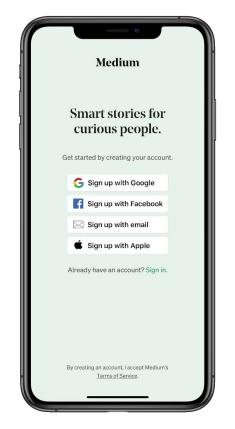
Federated Identity

What is it?

Users sign-in to a RP (relying party) with an IDP (Identity provider)

Why do we think it's important?

Federated identity is safer* than per-site usernames and passwords



^{*} phishing, password reuse, etc

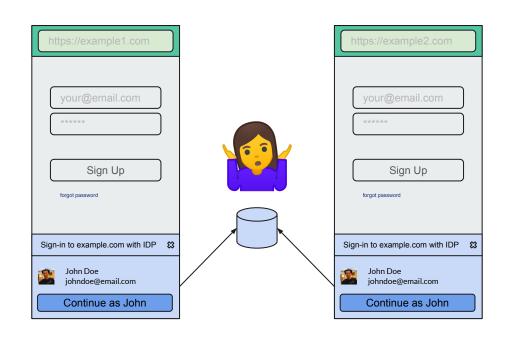
Why?

The classification Problem

What's the problem?

By design, identity federation was built on top of low-level primitives*.

By accident, the same primitives also enable cross-site tracking.



Browser





IDP

^{*} iframes, third party cookies, redirects

3P cookies use in Federation

front channel logout Signing out of your apps Signing-out of RP1 Signing-out of RP2 ••• Signing-out of RPn

Browser

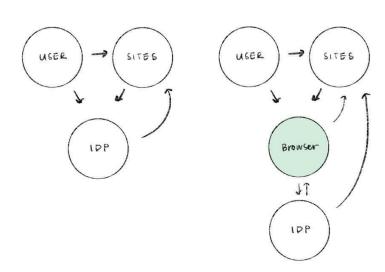


IDP



What's FedCM*?

A high-level, identity-specific, privacy-preserving browser API that enables identity federation to continue thriving on the web.



^{*} Federated Credentials Management API **

^{* *} Yeah, I know

Classes of solutions

Permission

Browser is only involved to capture user consent for tracking.

Pros

Backwards compatible. Extensibility

Cons

Permission-blindness* ineffective a driving change.

* on the way of the job to be done

Mediation

Browser renders parts of the IDP flow in the browser consent moments.

Pros

Deployable by IDPs. Meaningful permission.

Cons

Ossification*.

Delegation

IDP delegates much of the responsibility for minting tokens to the browser.

Pros

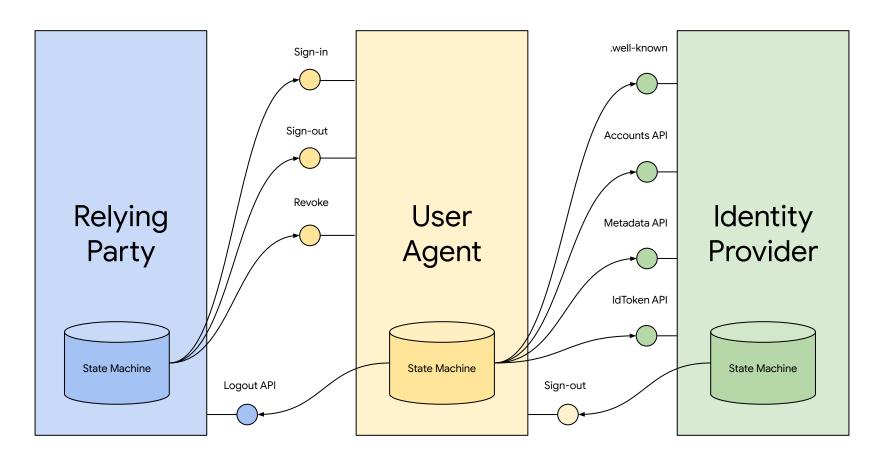
Frictionless, consequence-free

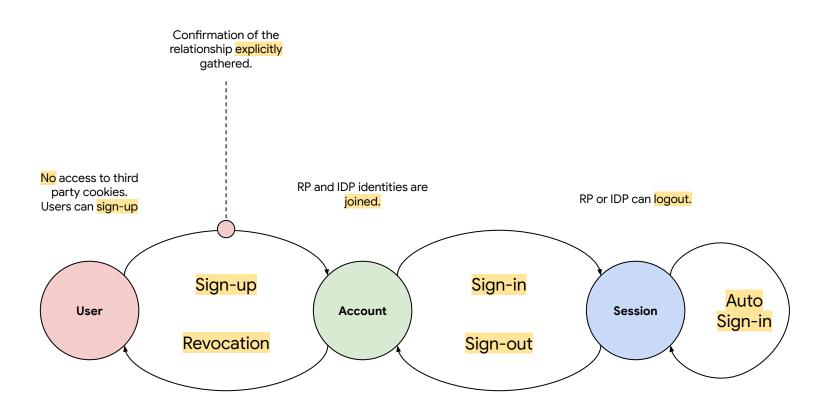
Con:

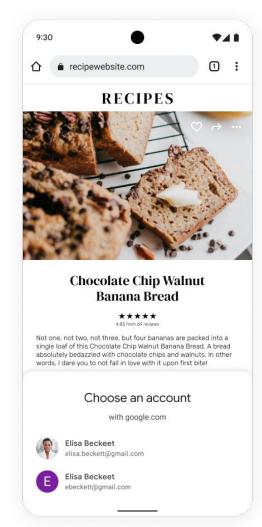
RP backwards incompatible *

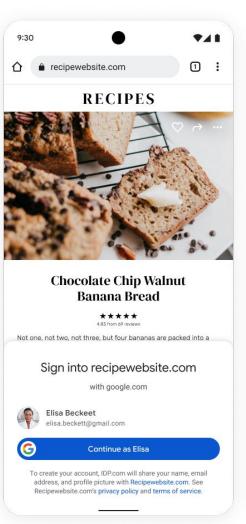
^{*} basic auth anyone?

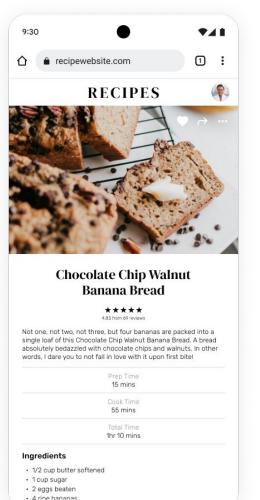
^{*} reminder: O(M) of RPs



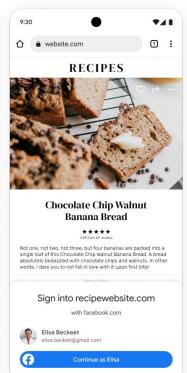


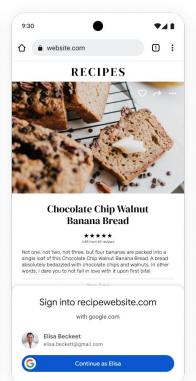


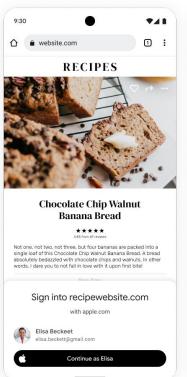


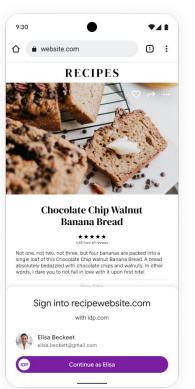






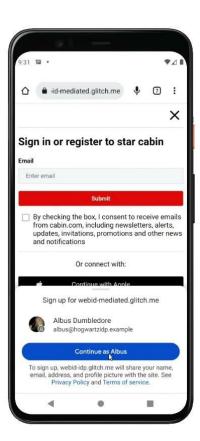


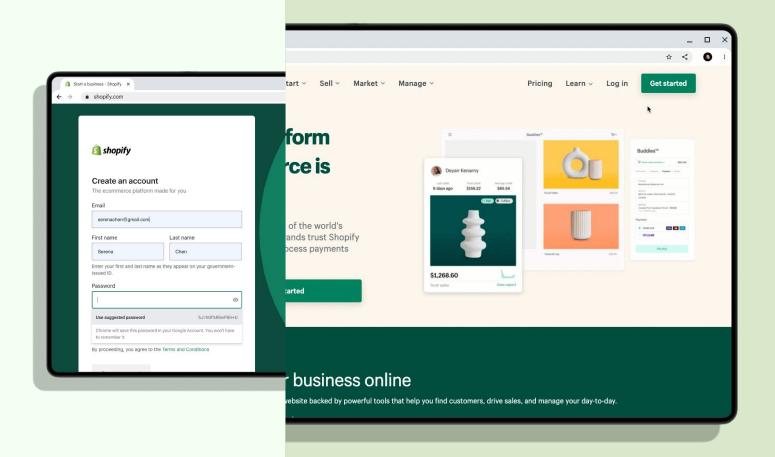


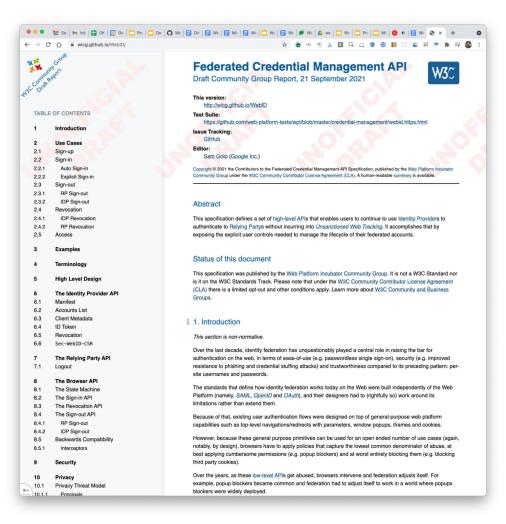


Demo

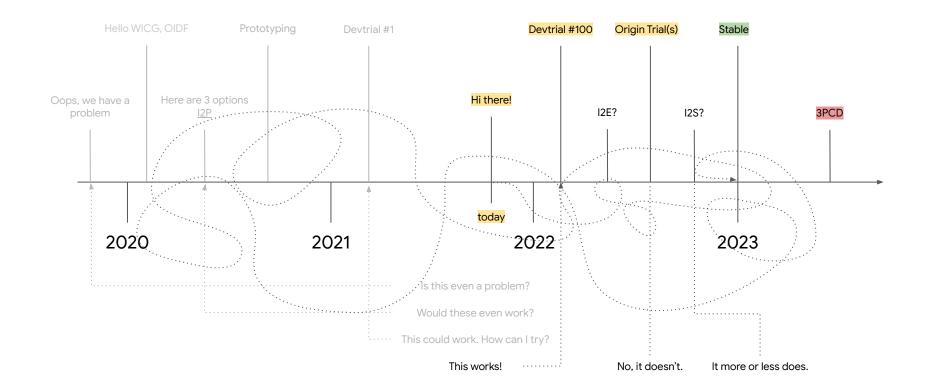




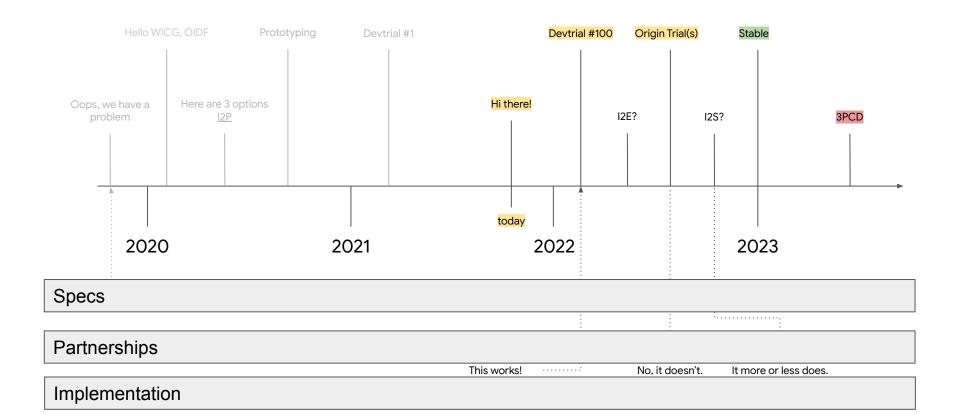




When?



When?



Questions?

Classes of questions

Anything also breaks when Any directional guidance? Any other concerns ab	
Anything else breaks when Any directional guidance? Any other concerns ab third party cookies are How can we help? Join us at 3PCD? deprecated? the FedID CG?	bout
deprecated? the FedID CG?	

ANNEX

