

Extending the Power of Consent with User-Managed Access

A Standard Architecture for Asynchronous,
Centralizable, Internet-Scalable Consent

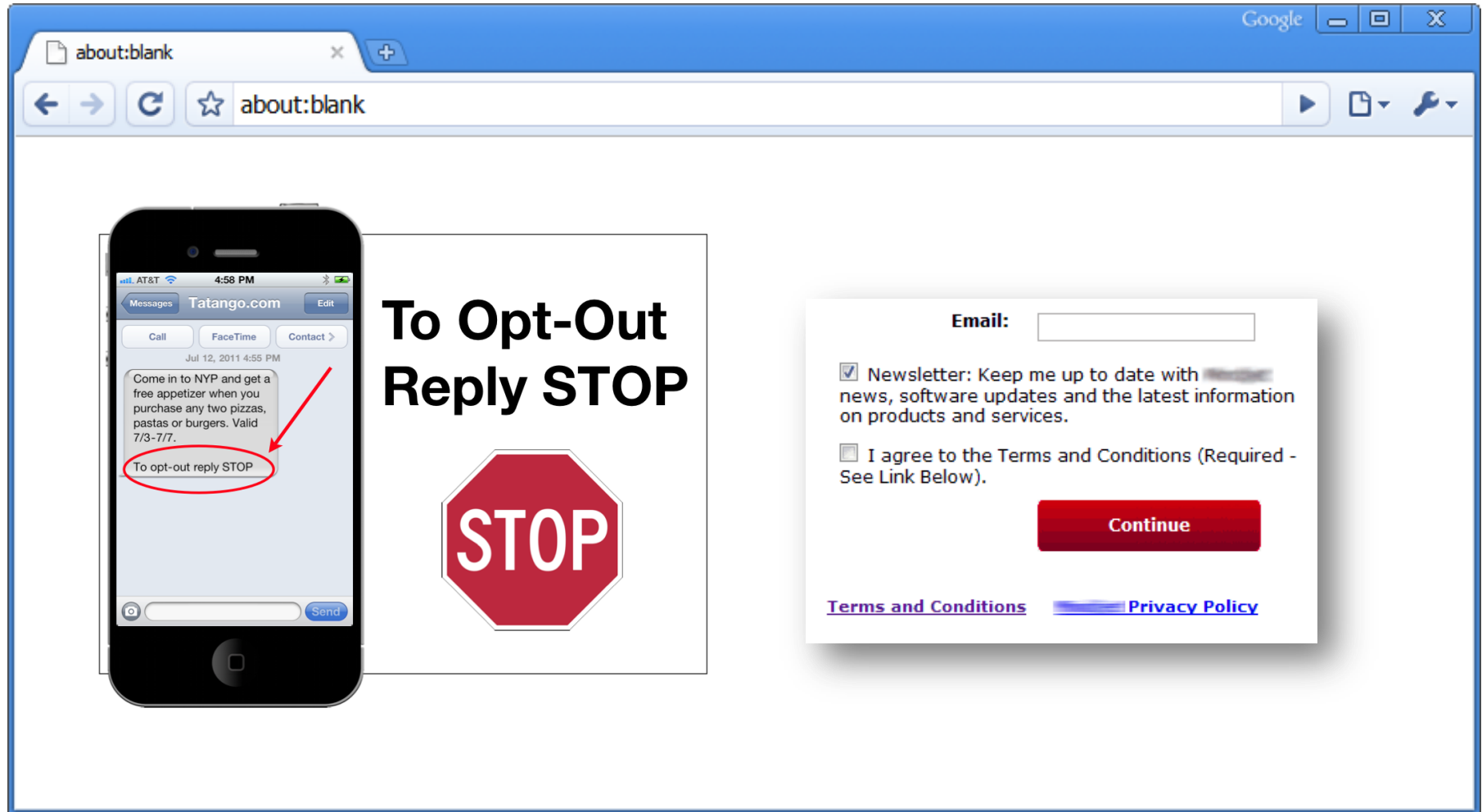
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“Privacy” goals vs. reality

- **Aspirations:** FIPPs and Privacy by Design speak of transparency, control, participation, consent...
- **Risk mitigation:** The top driver for corporate privacy funding is meeting compliance obligations
 - >50% of corporate and government privacy groups report into Legal or Compliance
- **Ready for a change?** 91% of Americans agree or strongly agree consumers have lost control over PII collection and use
 - 80% who use social networking sites are concerned about third-party access

In ordinary online contexts, the consent experience is dire



In the Internet of Things,
it's not going to get easier

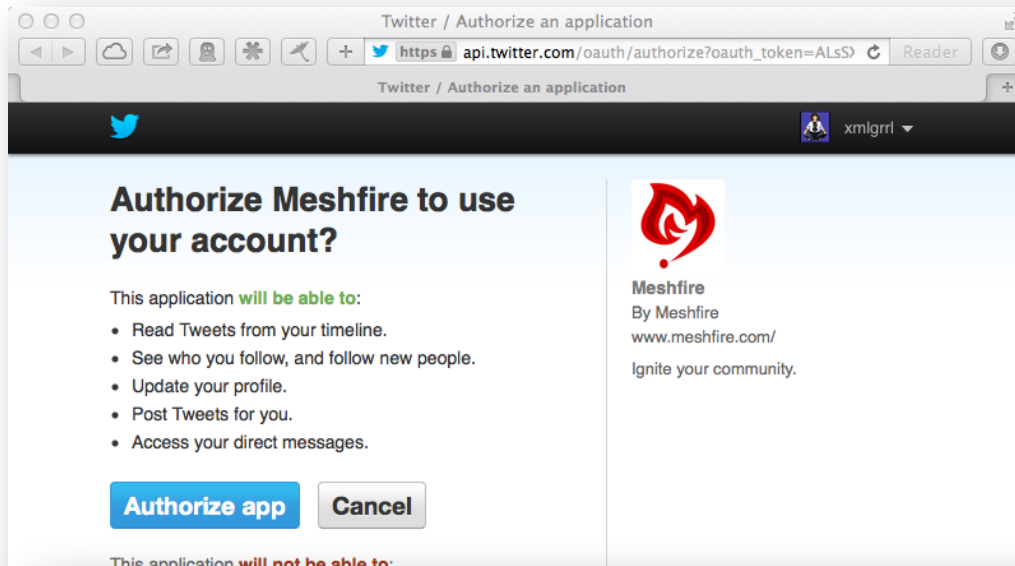
The Next Step in Wearable Electronics

By **Julia Goldstein** on May 4 2015 // No Comments

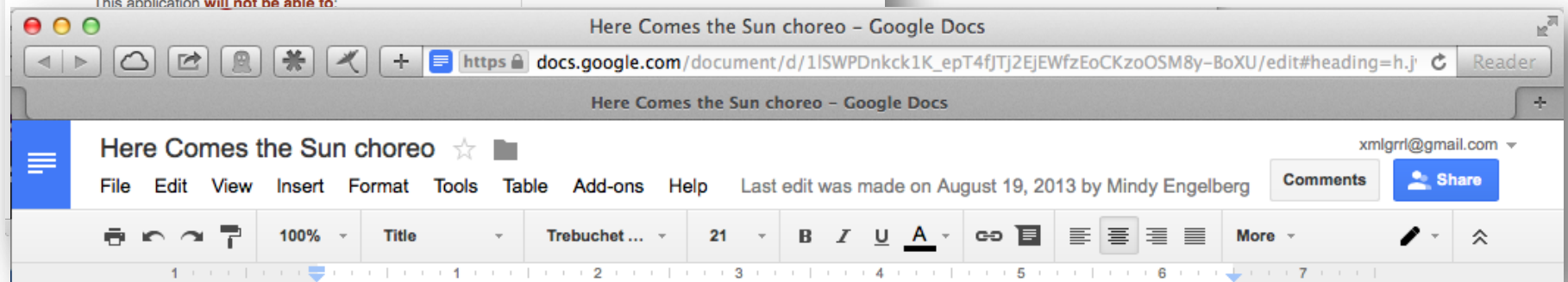


A funny thing happened in the API economy: beyond-compliance consent paradigms

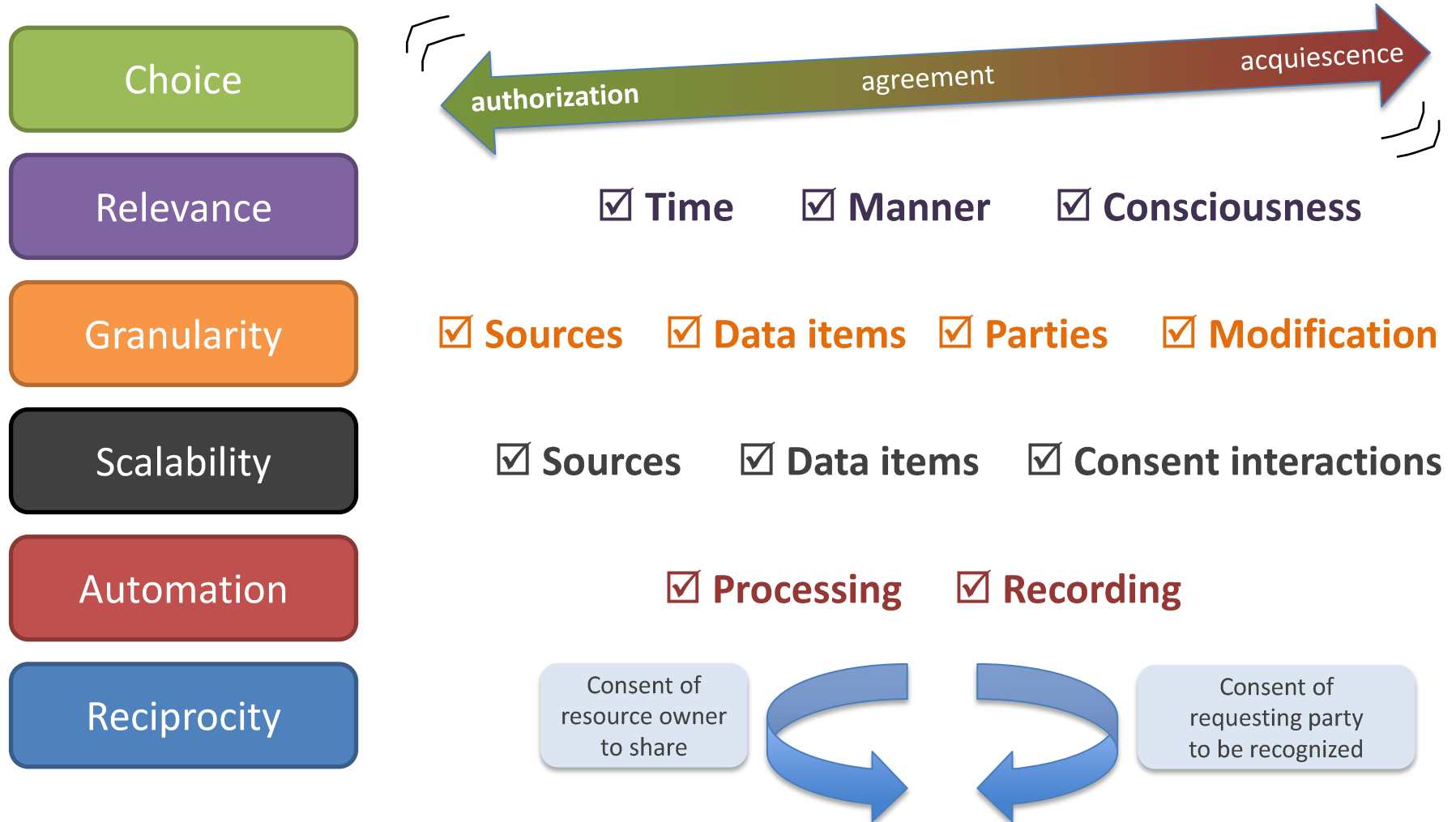
OAuth opt-in consent for scoped API access



Directed scoped sharing
with other people



Consent requirements that freshen up our aspirations

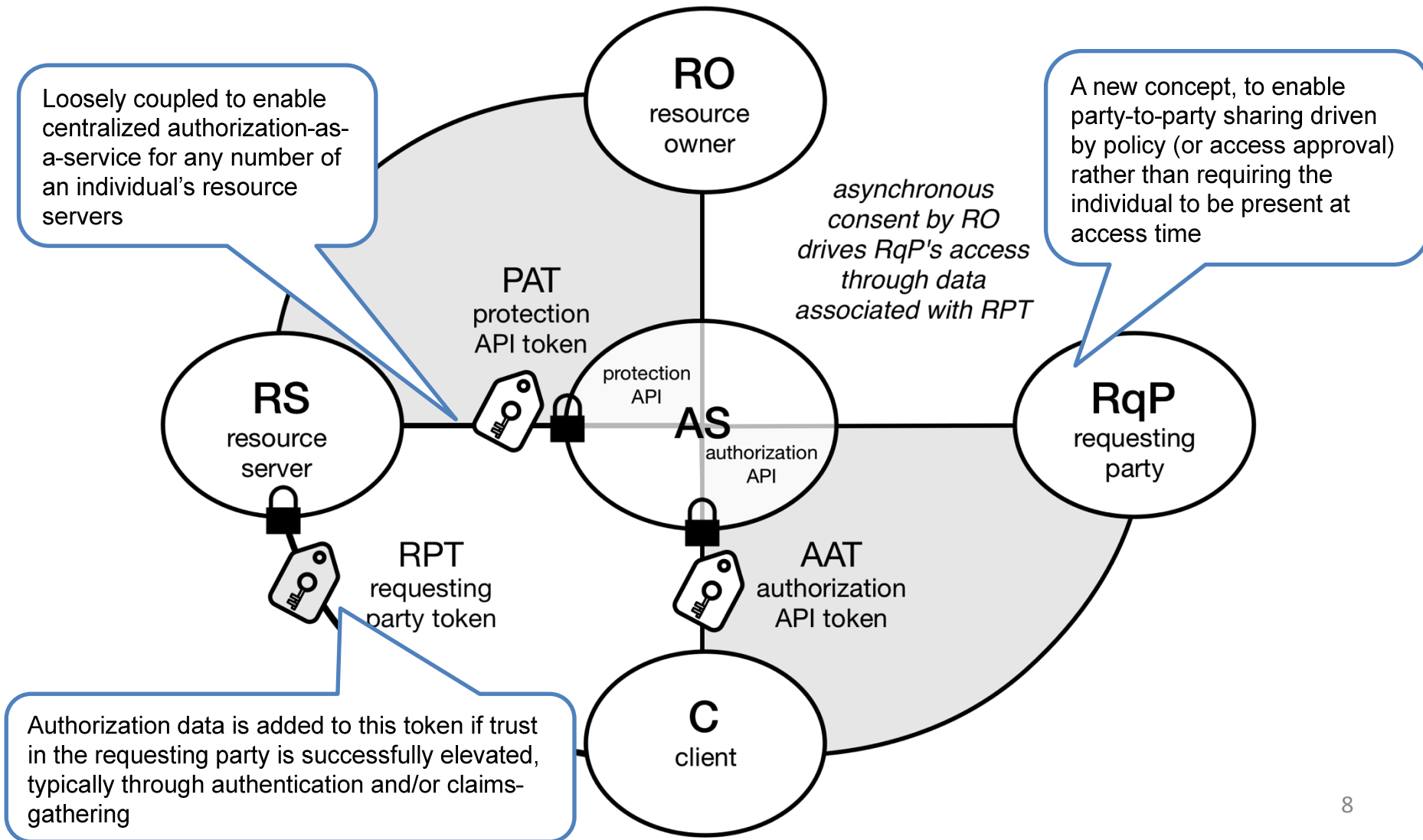


How do classic and new consent mechanisms do against the requirements?

The paper thing at the doctor's office

	ToS opt-in	Cookie opt-in/out	OAuth	"Share"	Consent directive
Choice	-1	0	0	+1	+1
Relevance	-1	0	+1	+1	0
Granularity	-1	0	0/+1	+1	0
Scalability	-1	+1	0	-1	-1
Automation	-1	0	+1	+1	-1
Reciprocity	-1	-1	-1	0	-1

The User-Managed Access (UMA) V1.0 standard builds on OAuth, and adds “Share” features



<https://himss.openrock.org:8043/openam/XUI/#uma/resources/>[Dashboard](#)[Shares](#)[Alice Henderson](#) ▾[Resources](#)[History](#)

Resources ▢

[▢ Revoke All](#)**Resources****Host****Type**

Allergies	BlueHealth	https://bluehealth.openrock.org:443/types/medical
Allergies	BlueHealth	https://bluehealth.openrock.org:443/types/medical
Heartrate	HappyHeart	https://happyheart.openrock.org:443/types/medical

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How does UMA do against the requirements?

	UMA
Choice	0/+1
Relevance	+1
Granularity	+1
Scalability	0/+1
Automation	0/+1
Reciprocity	+1

Thank you

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