

OpenID with Biometrics for Greater Privacy

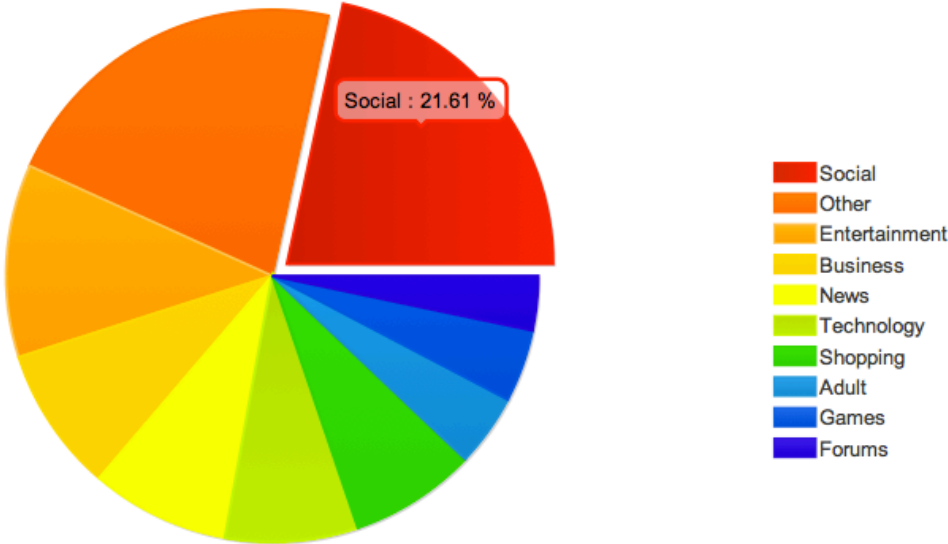
OpenID Summit Tokyo
December 1, 2011

Ho Chang, BioID AG

OpenID Website Industries

OpenID is most likely to be found in use on Social, Entertainment or Business type websites.

OpenID Top Ten Website Industry Distribution in the Top 100,000 Sites



* source: <http://trends.builtwith.com/docinfo/OpenID>

The Current Situation

One Person, Many Digital Identities

e-Commerce



e-Banking



Identity Provider



e-Government



Travel



Professional Communication



Private Communication



Games & Fun



Why aren't more "serious" sites accepting OpenID?

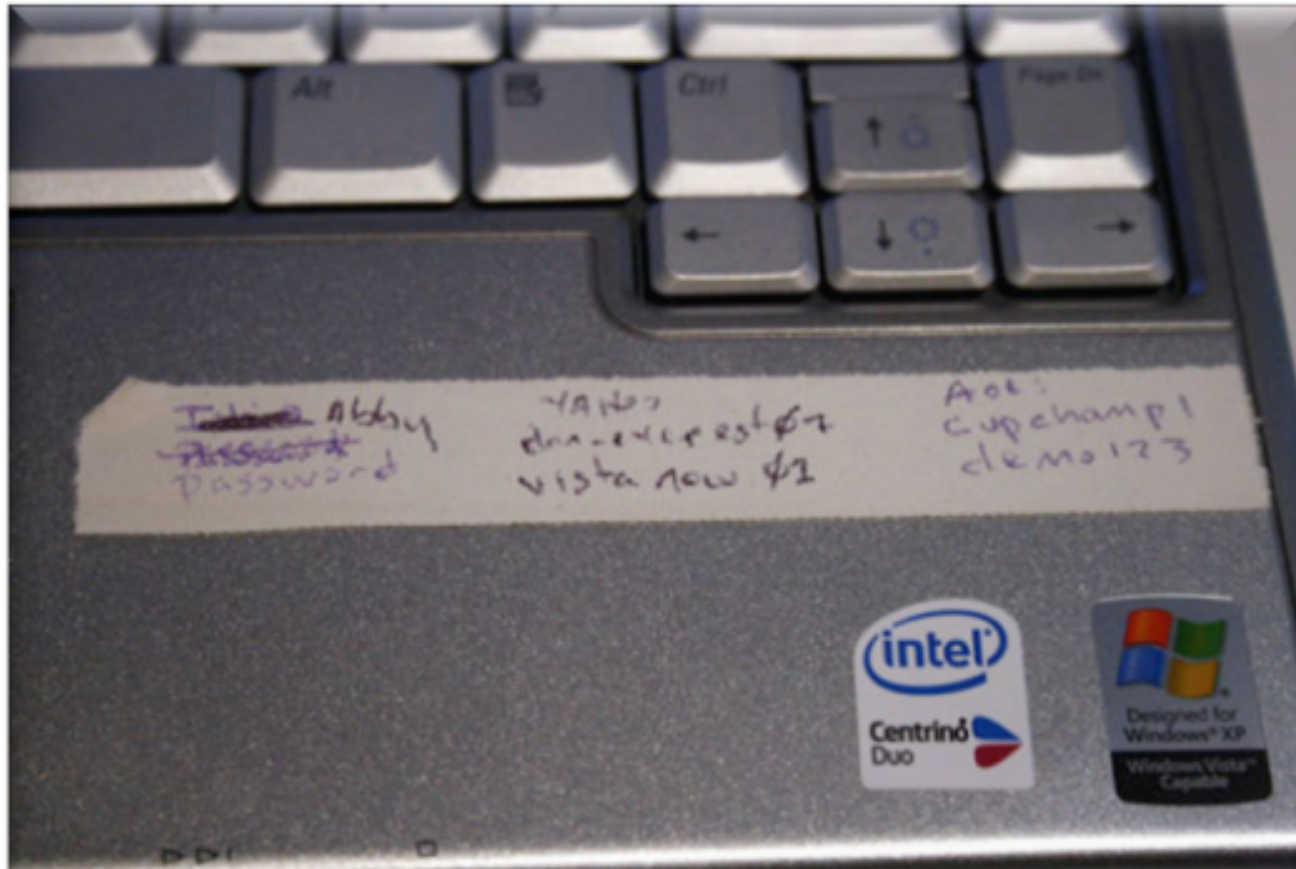
Security concerns: there's too much at stake!

- ❑ Cost of online payment fraud: US\$ 2.7 billion
- ❑ Cost of identity theft: US\$100 billion
- ❑ Cost of damaged reputation: **PRICELESS**



by MarkMonitor

User Concern #1: OpenID - Yet another insecure username/password!



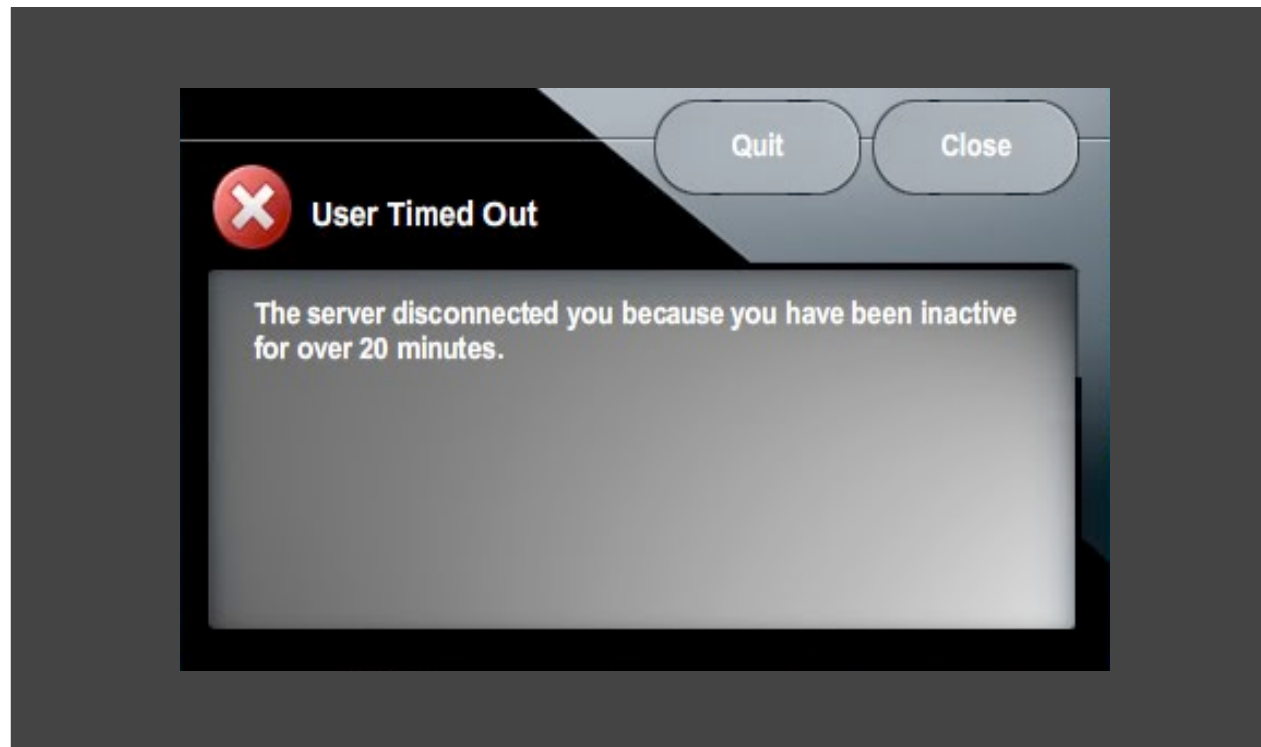
User Concern #2: No LINK between the user and his OpenID!



User Concern #3: Insecure Single Sign-On ("Someone else used my computer!")



User Concern #4: No Effective Session or Transaction Control



User Concern #5: OpenID Provider Sees All, Knows All



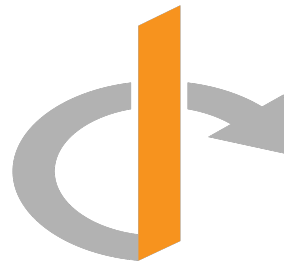
Why should we care?

“

When OpenID is adopted by more “serious” and more popular sites, the whole OpenID community wins.



Trust



Awareness



Critical mass

Our Vision

“

OpenID authentication will be performed using **recognition!**
Biometric recognition will play the dominant role in this revolution.



Source: <http://www.employeeRecognition.com/>

Market Contributors

A recognition-based OpenID includes*:

- Web fraud detection
- Behavior detection
- Context-aware computing
- Device fingerprinting and endpoint authentication
- Biometric recognition
- Proof of user presence during online session

* Reference: Maverick Research: The Death of Authentication, Bob Blakley, Gartner

“

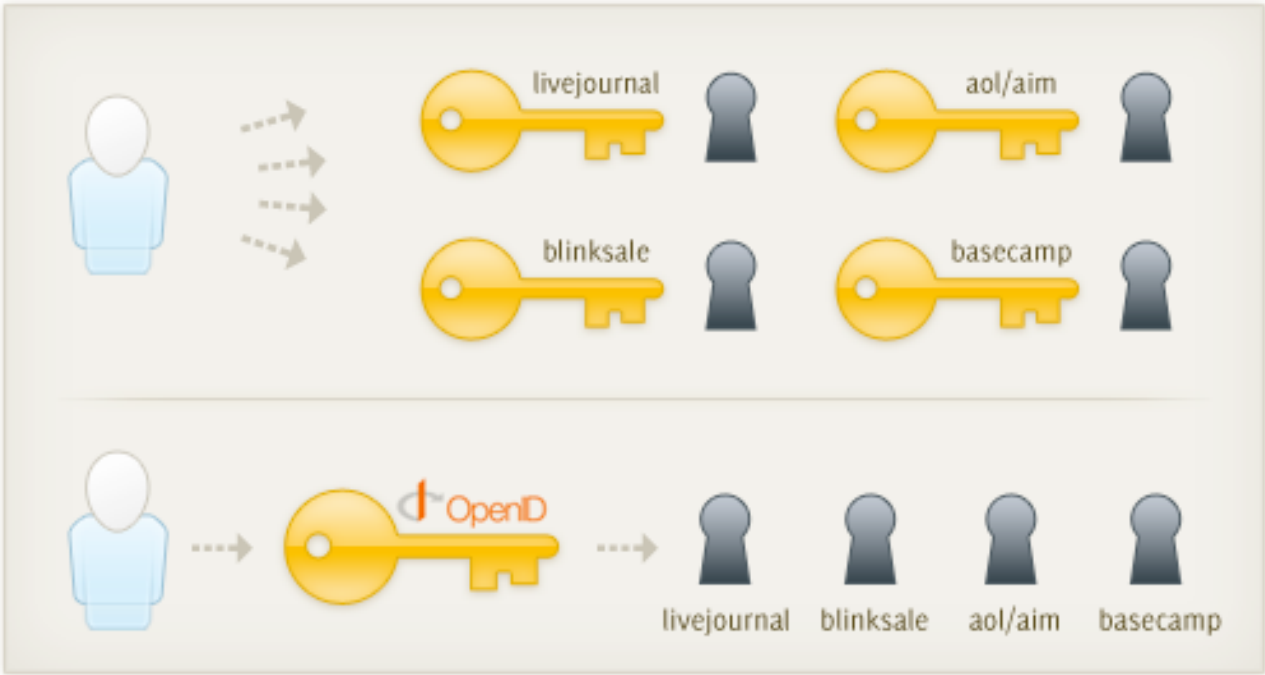
Biometric authentication is the only undeniable solution to link an individual to digital identities.



Information Society
Technologies

FIDIS (Future of Identity in the Information Society) is a Network of Excellence supported by the European Union under the 6th Framework Program for Research and Technological Development

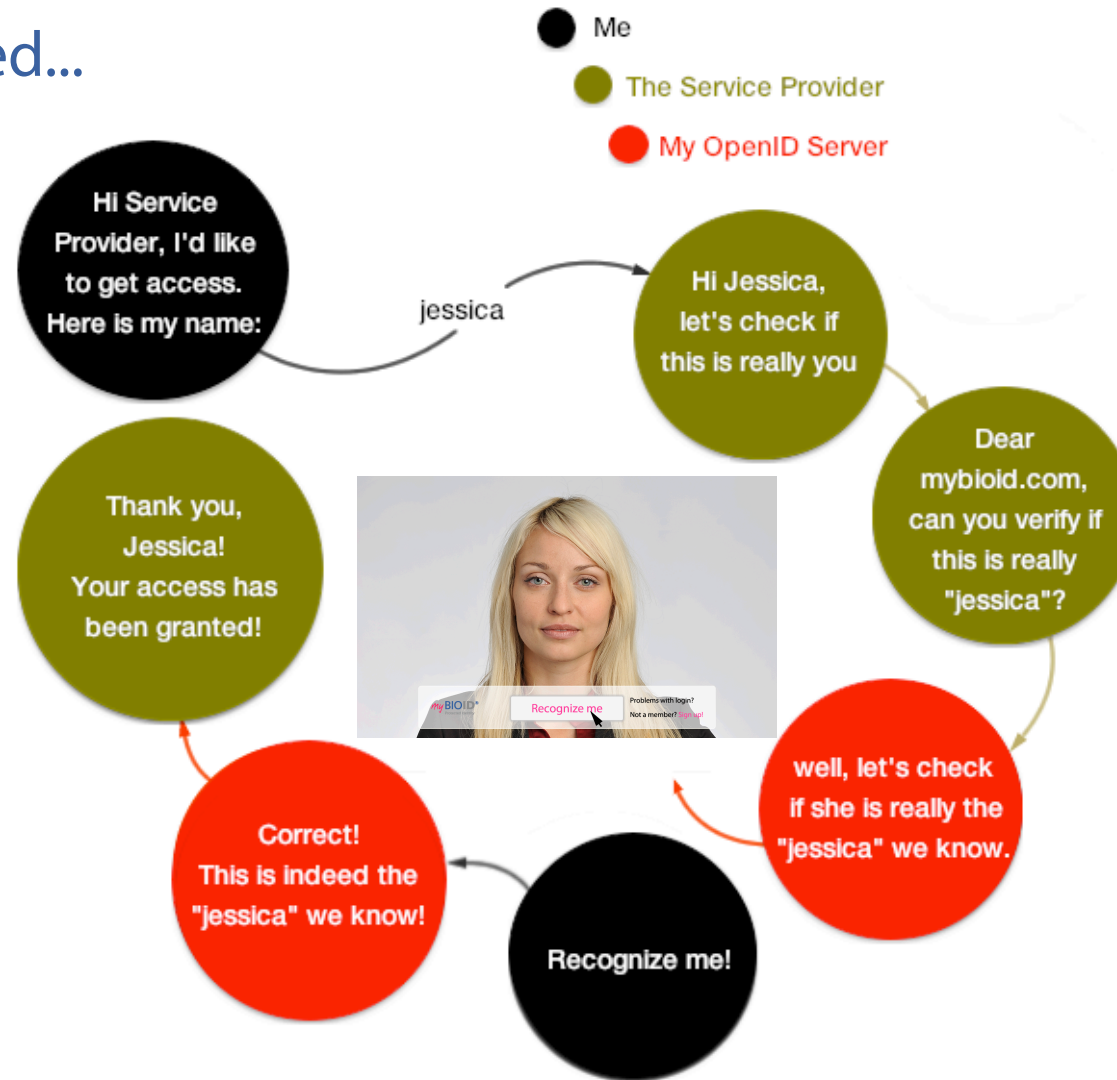
What is OpenID?



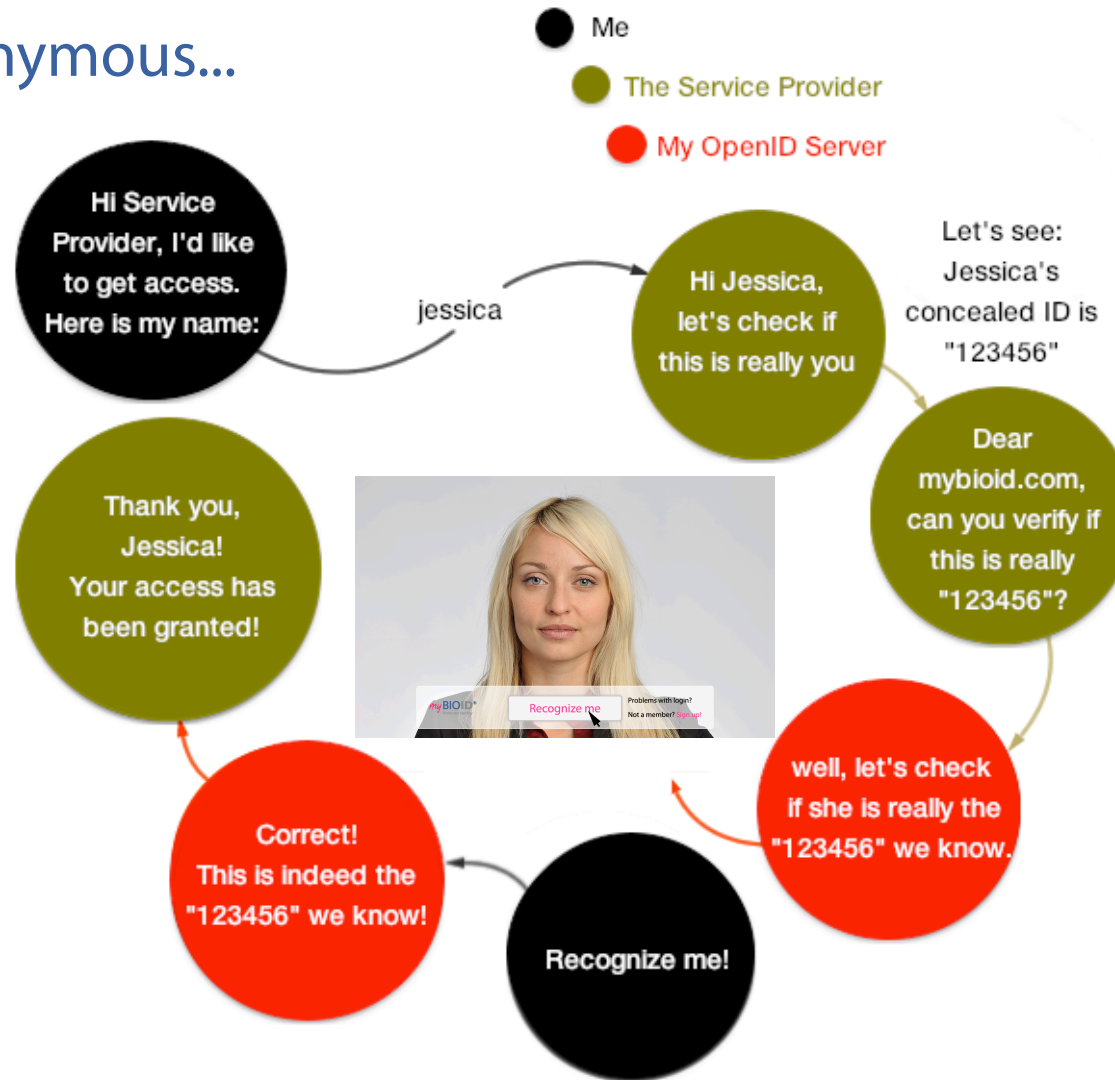
The current way...



Be recognized...



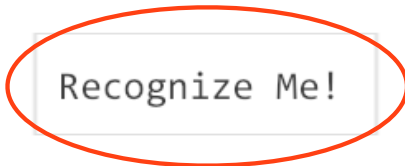
Remain anonymous...



The Implementation

Log in with OpenID

Be recognized & log in:



Click your [OpenID](#) account provider:



[Can't remember your login information?](#)

Why OpenID?

It's a single username and password that allows you to log in to any OpenID-enabled site.

It works on thousands of websites.

It's an open standard.

[learn more »](#)

Use your own URL

Want to add OpenID support to *your* website?

It's as easy as adding two HTML header tags!

The Benefits of a Biometrics-Secured OpenID

- Convenience
 - Simply recognize me!
 - No need to remember your OpenID URL & password
- Security
 - Strong multi-factor user authentication
 - Security using biometric recognition technology
- Privacy
 - Privacy protected by using “concealed ID”
 - Secure access requires no or minimal user credentials



Biometrics Secures OpenID with Greater Privacy!

- Strong User Authentication
 - It offers strong multi-factor user authentication by involving the user
- Secure Single Sign-On
 - It offers secure single sign-ons by verifying the presence of the user
- Effective Session Control / Transaction Authorization
 - It offers effective session control using convenient “live check”
- OpenID with Greater Privacy
 - It improves user privacy by requiring no or minimal user credentials to log in

Conclusion:

Biometrics + OpenID = A Community with Greater Privacy!



Demo

OpenID with Facial Recognition

BIOID[®]
be recognized

Thank you!