

The Nexus of Identity

IBM's submission for the W3C “Identity in the Browser” Workshop

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Net - net of the paper

Our customers expect us to give them the ability to adjust the transparency knob
Based on their use case and to be able to control what users do

I've been sitting in the back, not saying anything
Because trying to represent an aggregate answer from IBM is
“yes”to everything

Whatever we can do to improve the usability, the scalability
the security
Lets do it.

Since More, better, faster is the way of the internet
We need to be adaptive,
Look for optimizations and get out of the way

In addition to our “base” products that deal with identity and identity services (Tivoli Identity products, Lotus collaboration software WebSphere Application Servers)..... we also have products & services that mitigate threats, track vulnerabilities, and offer risk based policy and access

IBM X-Force Threat Reports - United States

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IBM X-Force Threat Reports

The IBM X-Force Trend and Risk Report
The IBM X-Force Trend and Risk Report is produced twice per year: once at mid-year and once at year-end. This report provides statistical information about all aspects of threats that affect Internet security, including software vulnerabilities and public exploitation, malware, spam, phishing, web-based threats, and general cyber criminal activity. They are intended to help customers, fellow researchers, and the public at large understand the changing nature of the threat landscape and what might be done to mitigate it. Questions or comments regarding this report should be addressed to xforce@iss.net.

The IBM X-Force Threat Insight Report
The IBM X-Force Threat Insight Report is designed to highlight some of the most significant threats and challenges facing security professionals today. This report is produced by the IBM Managed Security Services (MSS) team, and is compiled by the

2010 Trend and Risk Report
The IBM X-Force 2010 Trend and Risk Report reveals how 2010 was a pivotal year for the information security industry as networks faced increasingly sophisticated attacks from a widening variety of malicious sources.

- 2010 saw the largest number of vulnerability disclosures in history, up 27 %. This increase has had a significant operational impact for anyone managing large IT infrastructures. More vulnerability disclosures can mean more time patching and remediating vulnerable systems.
- 49% of the vulnerabilities disclosed in 2010 were web application vulnerabilities. The majority of these were cross site scripting and SQL injection issues. These vulnerabilities represent just the tip of the iceberg since many organizations develop third-party applications in-house that are not subject

Report archive

- 2010 Mid-Year Trend and Risk Report
- 2010 IBM X-Force Mid-Year Trend Report Graphics Package
- Q3 2010 Threat Insight Quarterly
- Q2 2010 Threat Insight Quarterly Report
- 2009 IBM X-Force Trend and Risk Report
- Q4 2009 Threat Insight Quarterly podcast (MP3, 2.9 MB)

My particular interest

Mobile applications.....

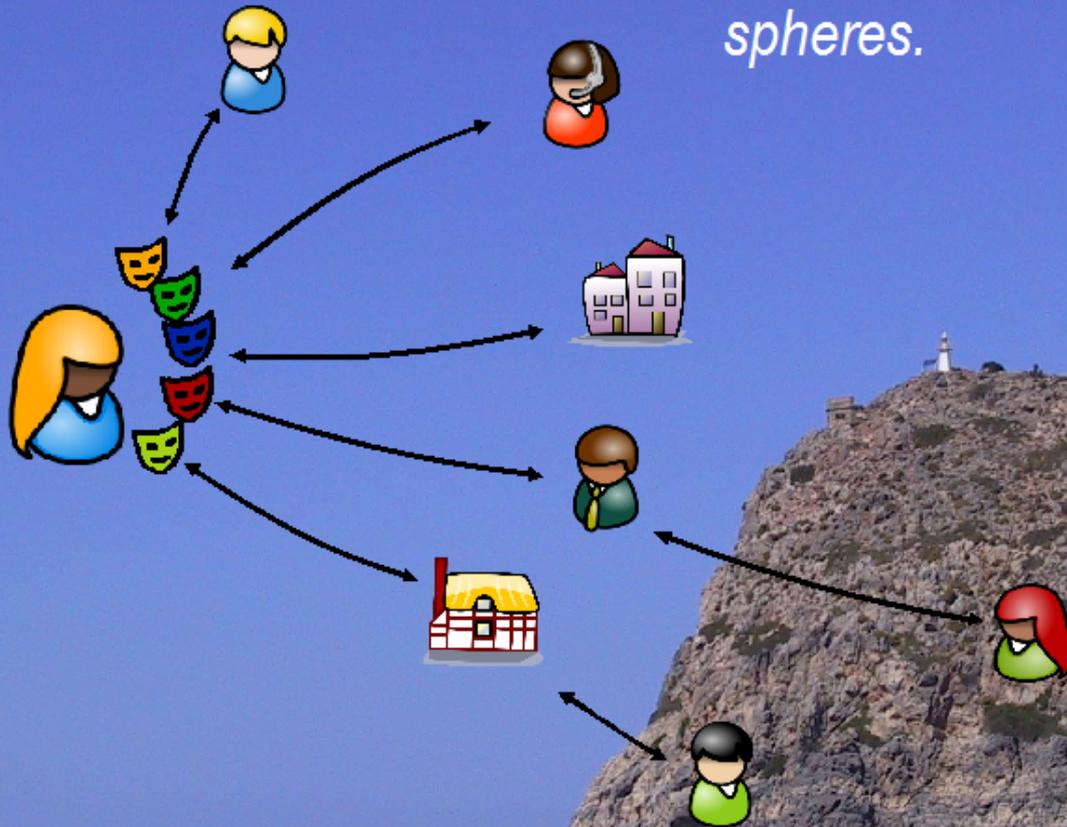
What would a well behaved mobile web application look like?

And what expectations should users have with regard to trust and privacy

I' m less concerned with what it is, than being able to tell that it is one [I' m optimistic that we can improve this over time]

Our Vision

In the Information Society, *users* can act and interact in a *safe and secure* way while *retaining* control of their private spheres.



Research topics presented at RSA

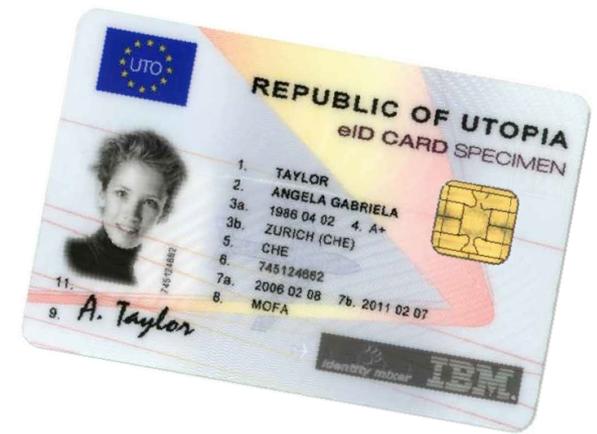
IBM Identity Mixer

A flexible cryptographic framework

Paradigm Shift in Access Control

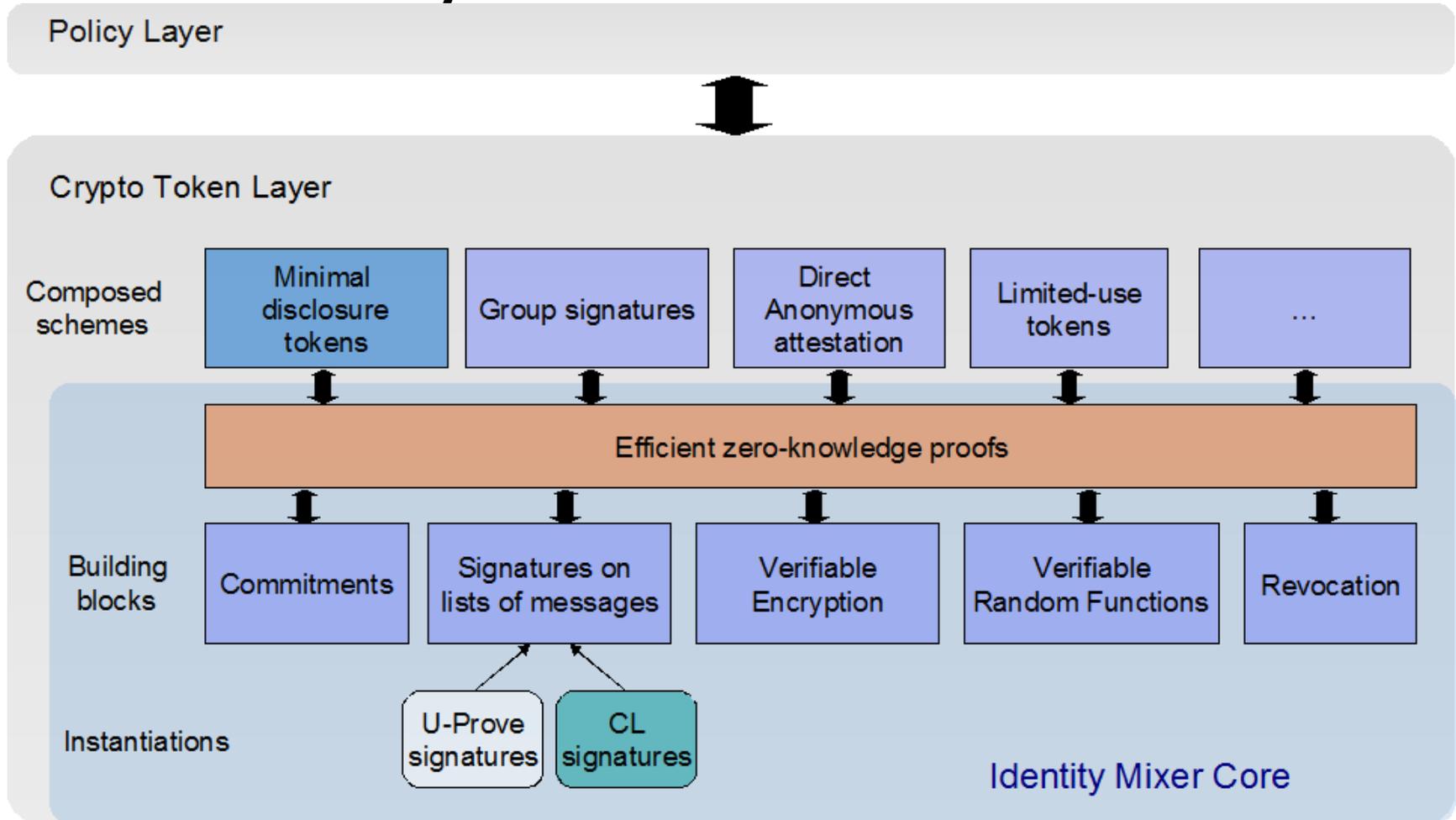
European Projects to make this real

Research Perspective



- One can prove statements such as *“I'm between 12-15 years old”* using an electronic ID without revealing any data stored in the eID such as name, address or birthdate
- Technology can be used with today's Smartcards
- Identity Mixer is a framework that addresses all requirements of privacy-protecting PKI
- Paradigm shift in authentication: *Who are you vs. these are the properties required for access*

Identity Mixer: Framework



Resources

- PrimeLife: www.Primelife.eu
- Identity Mixer:
 - idemix.wordpress.com
 - www.zurich.ibm.com/security/idemix
- Contacts:
 - Andreas Wespi: anw@zurich.ibm.com
 - Jan Camenisch: jca@zurich.ibm.com