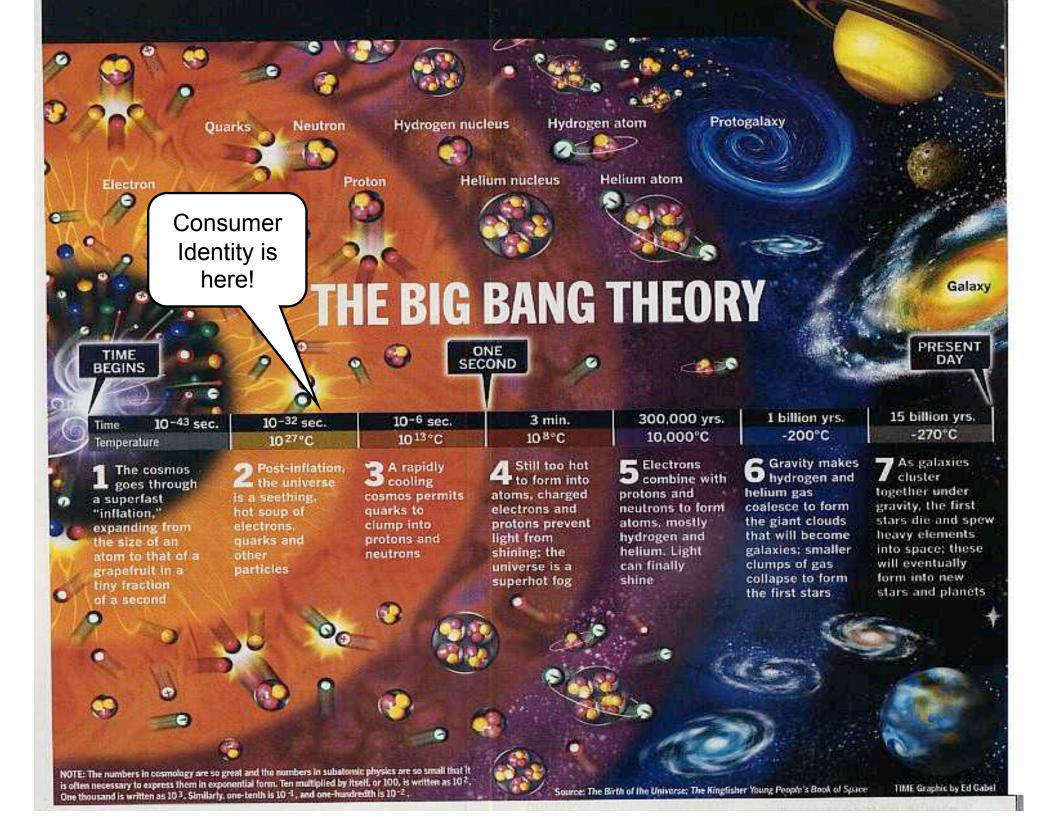


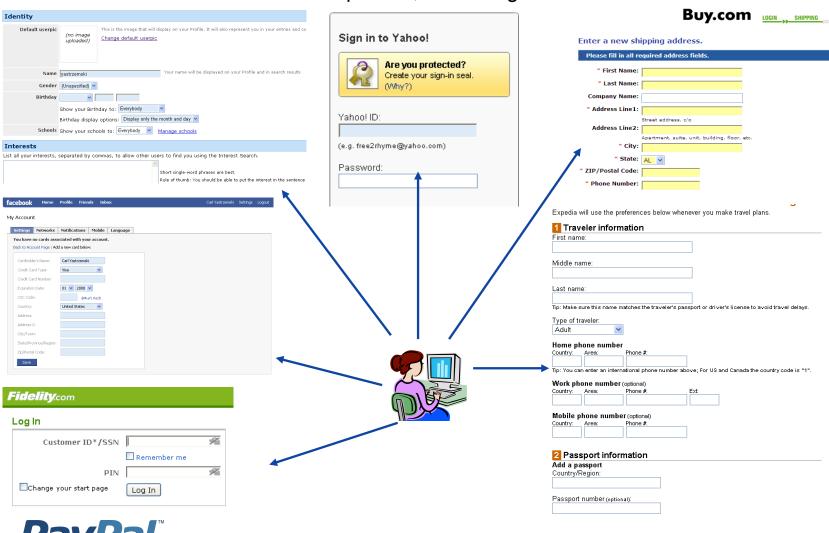
Identity Assurance and your Real World Identity

Andrew Nash Senior Director of Identity Services



Internet Consumer Identity ... Yesterday?

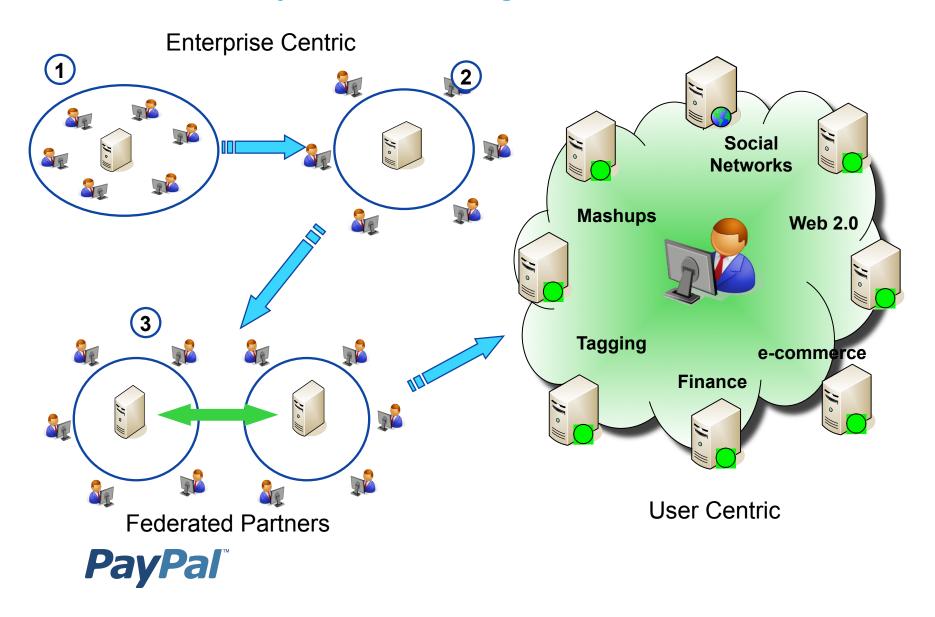
Consumer Internet interactions are repetitive, frustrating and littered with outdated info



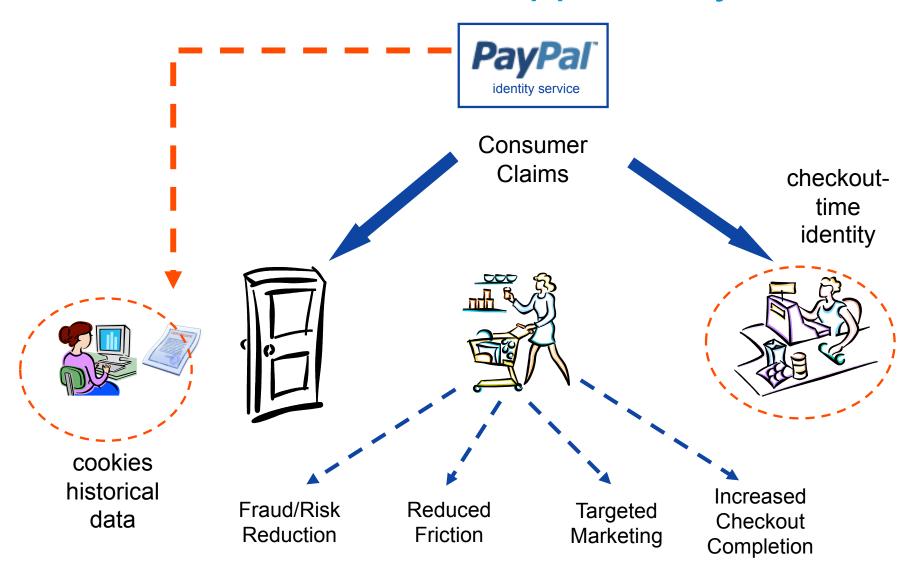
Consumer Trust and Safety



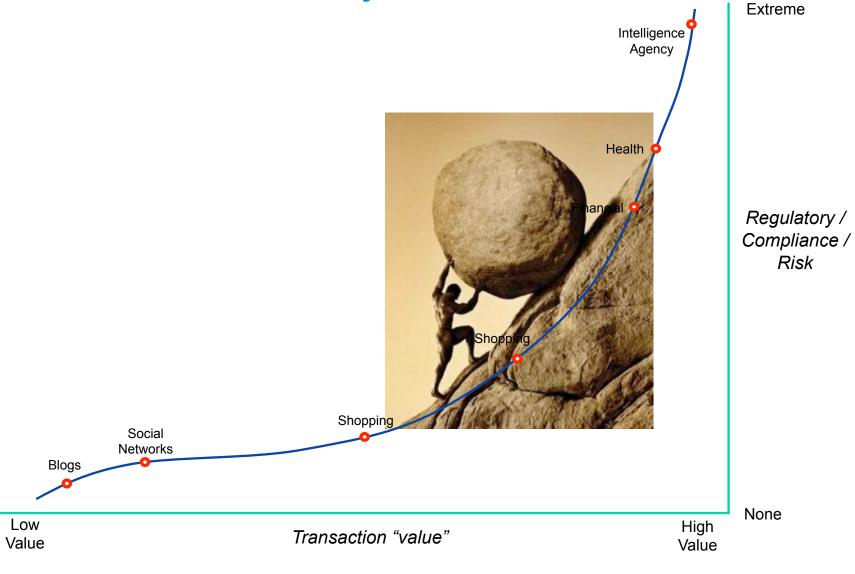
Identity Evolution Finally Addressing the Consumer



Transactional Opportunity



The Identity Trust Gradient





Identity Assurance Frameworks

- Kantara (and others)
 - Framework supporting mutual acceptance, validation and lifecycle maintenance across identity federations
- It consists of 4 parts:
 - Assurance Levels
 - Service Assessment Criteria
 - Accreditation and Certification Model
 - Business Rules



US Federal Govt Assurance Levels

Assurance Level	Example	Assessment Criteria – Organization	Assessment Criteria - Identity Proofing	Face-to-Face
AL 1	Registration to a news website	Minimal Organizational criteria	Minimal criteria - Self assertion	or Multiple Forms of Govt Id
AL 2	Change of address of record by beneficiary	Moderate organizational criteria	Moderate criteria - Attestation of Govt. ID	actor, Flove Introl of token through authentication protocol
AL 3	Access to an online brokerage account	Stringent organizational criteria	Stringent criteria – stronger attestation and verification of records	Multi-factor auth; Cryptographic protocol; "soft", "hard", or "OTP" tokens
AL 4	Dispensation of a controlled drug or \$1mm bank wire	Stringent organizational criteria	More stringent criteria – stronger attestation and verification	Multi-factor auth w/hard tokens only; crypto protocol w/keys bound to auth process



So how is it, that...

Anonymity with user attributes is acceptable?

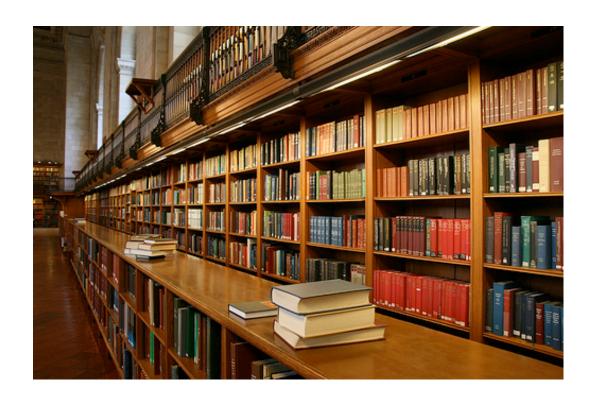
- One time credit card #
 - + shipping address
 - = product shipment





So how is it, that...

- You can perform a transaction with a high level of assured identity but low authentication
 - E-commerce
 - Library borrowing





So how is it...

 A digital representation of me is sufficient in many (most?) cases as opposed to my real world identity

Additional conversation at:

http://www.xmlgrrl.com/blog/2009/12/31/how-to-rest-assured/

http://connectid.blogspot.com/2010/01/taxonomyof-federated-applications.html





Well for a start ...

- There should be a lot more levels between AL1 and AL2
- Pseudo-anonymity should have much broader acceptance (maybe at all levels)
- In broad e-commerce transactional domains a level 1.x may be the 80% case
- Even government e-commerce transactions probably don't have to know who you are



But maybe mostly because ...

- The model fails to account for risk based processing
- Financial institutions and most commerce sites apply a set of risk based evaluation rules



But maybe mostly because ...

- Unlike NIST, risk based systems are not a one time identity proofing exercise
- Continual verification of identity "goodness"
 - Context, transaction history, behavior, ...
- Enhancement to authentication
 - Triggers for step-up authentication





US Federal Privacy Policy

Informed Consent

- Define default information to be released to RPs
- Should provide ability to deny release of certain attributes

Abstract Identifier

Where PII not required

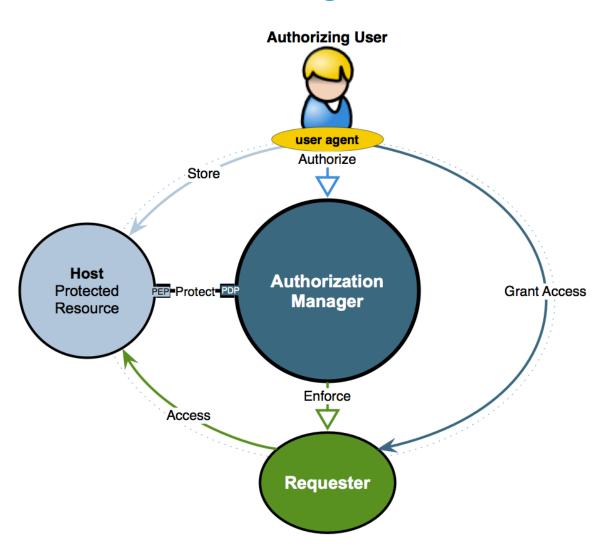
Minimal Transmission

No more attrib than required shared

Activity Tracking

Not disclosed to other parties

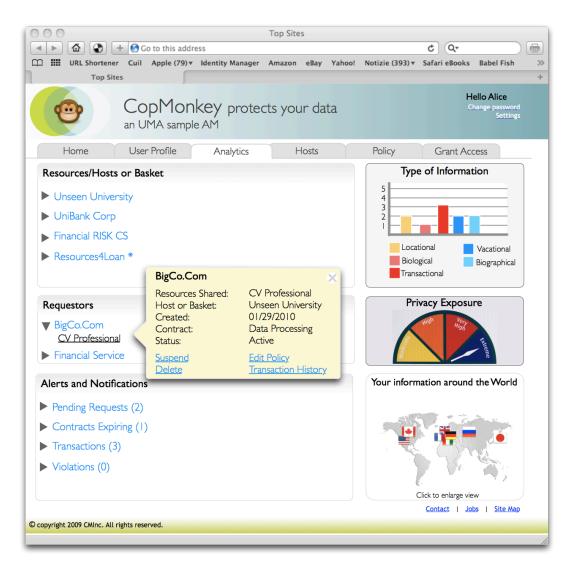
User Managed Access





http://kantarainitiative.org/confluence/display/uma/UMA+Explained

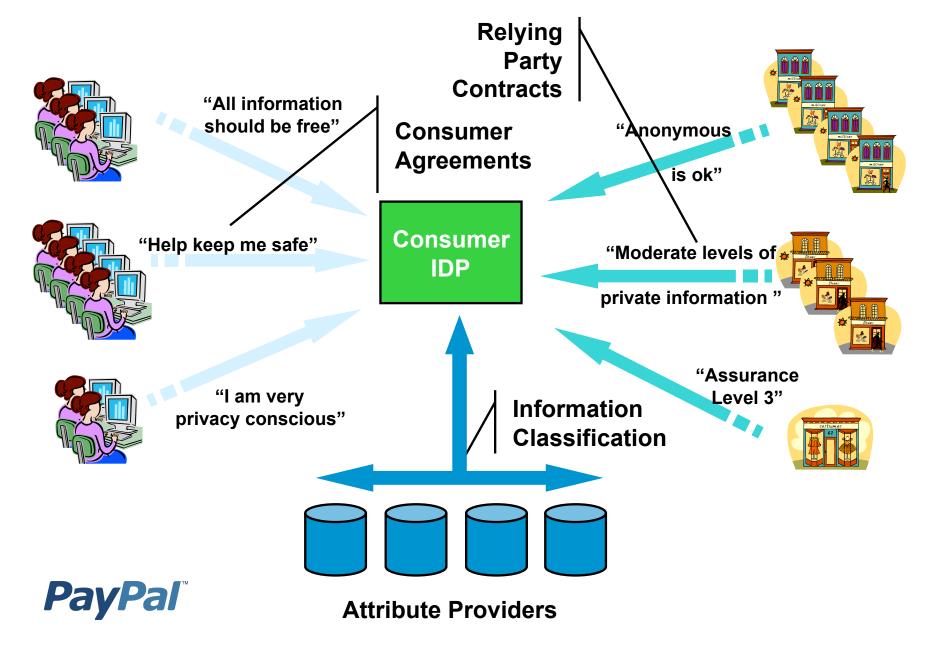
UMA Dashboard





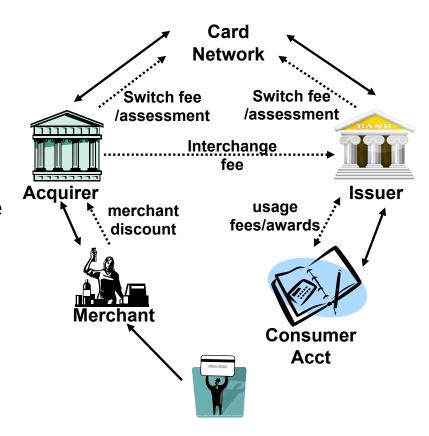
http://kantarainitiative.org/confluence/display/uma/User+Experience

Role of IDP?



Credit Card Analog

- Credit cards evolved a similar if more complex ecosystem
- Consumer and Merchant agreements with penalties
- Caveat Emptor
 - Credit card system is in a steady state
 - VERY different world during startup phase
 - Features now available were not economically viable during the equivalent credit card big bang





Consumer IDP as Consumer Advocate

- Consumer IDP must be focused on:
 - The success of their users
 - Privacy and Control
 - Usability
- Anonymity the cut case
- Consumer Control / Permission
 - Tools and protocols necessary but not sufficient condition
 - Consumer information classification
 - What does the consumer think is sensitive?
 - What are the trigger conditions?
- Notification
 - Exception reporting in human terms
- Auditing
 - "Just where did I go last week...?"



The Three Laws of Consumer IDP's???

- 1. An IDP may not injure a consumer, or through inaction, allow a consumer to come to harm.
- 2. An IDP must obey orders given by consumers, except where such orders would conflict with the First Law.
- 3. An IDP must protect its own existence as long as such protection does not conflict with the © Original Artist Reproduction rights obtainable fro





"No kidding? — you broke all three laws of robotics?"

Unpaid Plug





PayPal

