



Online Identity Attribute Exchange 2012 Initiatives

Market Opportunity



Startup (2011)

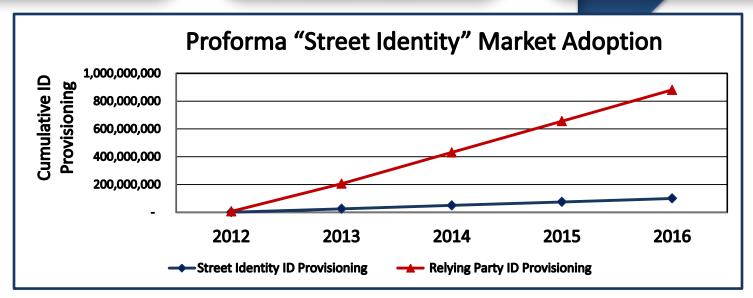
Unrealized Large Market Potential Evolving Value Props & Use-Cases Evolving Tech/Policy Standards Initial Tech Implementations Low Volume Pricing (inefficient) Disruptive Tech/Business Models

Pilots/Early Adoption (2012)

Defined Market Objectives & Metrics
Baseline Tech/Policy Standards
Demo and Pilot Systems Ready
Low Volume Pricing (inefficient)
Contracts w/Early Participants

Growth/Efficient (2013 +)

Established Market Adoption
 Expanding Portfolio of Use-Cases
 Stabilized Tech/Policy Standards
 Technology – Proven & Operational
 High Volume Pricing (efficient)
 ATP and APN Market Evolution

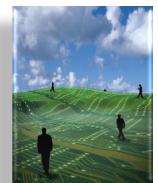






How do I connect a digital identity presented to my web site to a real person?

- Simply
 - APIs and Policy management
- With minimal friction to my customer
 - Privacy protective, opt-in / opt-out
- Cost effectively
 - Including process management
- Scalably
 - Web single sign on



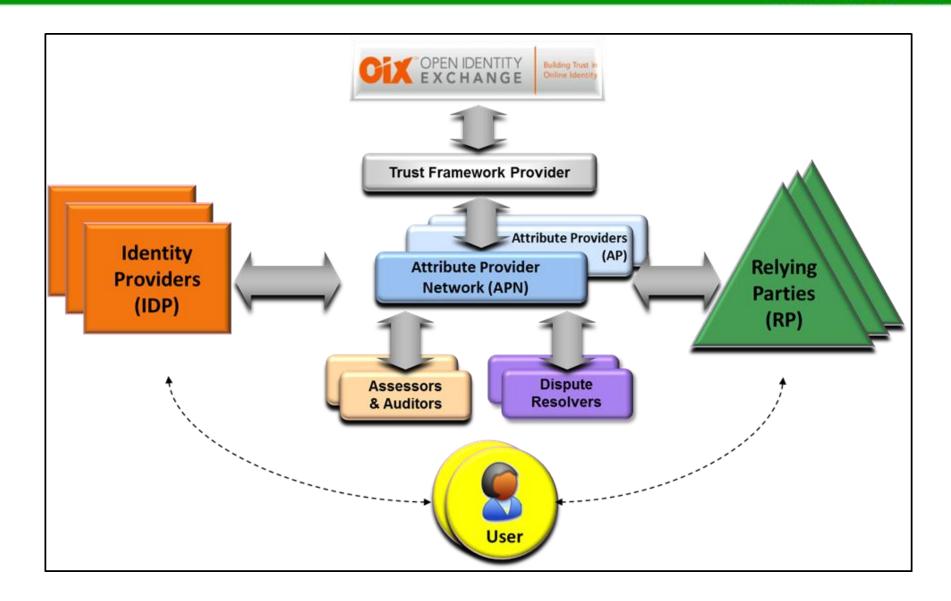
How do I as service provider or retailer verify customer information at my web site?

- At an affordable price point
- With appropriate confidence
- In a way that is consistent with my web site user experience and services

How do I obtain real world information to support my customer transactions?

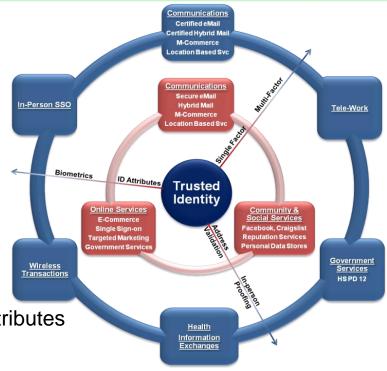
- Minimizes what I have to ask the customer
- Allows me to market to them more effectively
- Increases the array of services I can offer
- Reduces my fraud loss rate

Attribute Exchange Ecosystem



Benefits to Relying Parties

- Federated Login
 - Simplify and increase sign-up/sign-in
 - Lower help desk costs
 - Improve security & reduce fraud
 - Strengthen trust and brand
- Online Identity Attribute Exchange
 - Stronger authentication
 - User asserted, verified & permissioned attributes
 - User-centric privacy
 - Reduce cost of identity attributes per user
 - Sell higher value products/services
 - Improve target advertising
- Advanced Online Applications (APIs)



Enhancing Online Experience

- Frictionless registration of new customers
 - Financial service providers, doctors, insurance, etc.
- Access to premium media content anywhere
- Access to citizen services
- Internet access to medical services
- Targeted and location-based marketing
- Mobile service provisioning
- Mobile payment applications
- Supply chain management



Concurrent Engineering



Attribute Exchange Pilots

- AX Phase 1: Q2 2012 Q3 2012
- AX Phase 2: Q3 2012 Q1 2013
- US NSTIC
- UK tScheme

Attribute Exchange Trust Framework

- Levels of Protection
- Levels of Assurance
- Levels of Control
- Audit and Assessment
- Certification and Dispute Resolution

OIX Attribute Exchange Trust Framework Lifecycle





Attribute Exchange Pilots

Purpose:

- Demonstrate online attribute exchange operations
 - User, AP, IDP and RP interfaces and process/data flows
 - Legal, policy and technical interoperability, security and scalability
 - Business models
 - Assessor roles and processes

Objectives:

- Simplify AP, RP and IDP participation, deploy new online services and demonstrate asset monetization via an Attribute Provider Network platform
 - AP online verification services
 - Hybrid Mail AP service PIN code mail piece
- Live User data for 1+ Google RP, 2+ commercial RPs, 2+ Government RPs
- RP billing (monthly) and AP/IDP transaction/payment statements

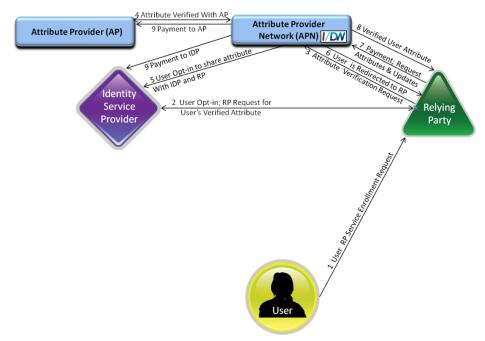
•Scope:

- Limited to key identity attributes (NEAT) initially
- For each RP service: Free market Trial of verified attribute services for 90 days or 50,000 Users, whichever occurs first

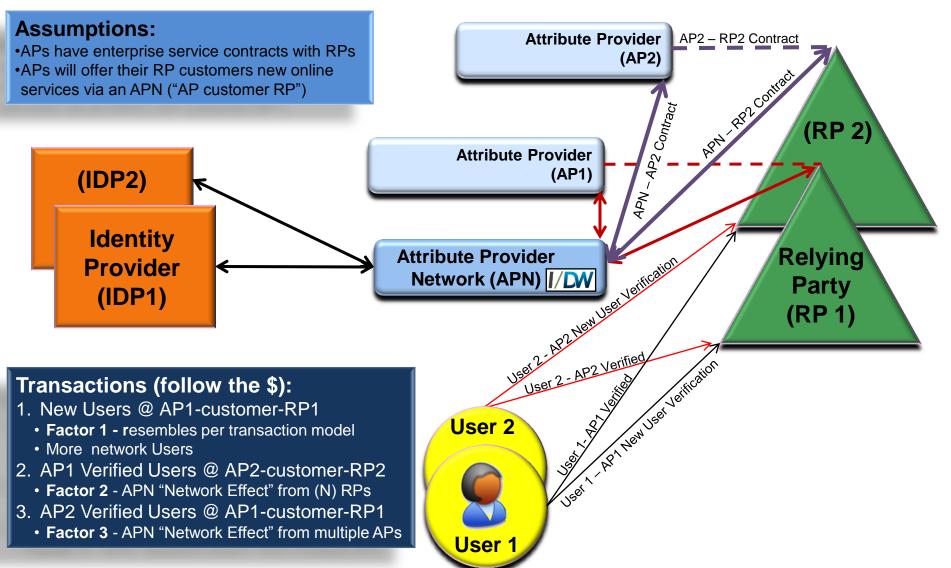


Attribute Provider Network

- Online market channel manages attribute processing no OCI
- Software as a Service (SaaS) Attribute Provider Network Features
 - **Business:** Simplify ability to participate, deploy new services, and monetize assets
 - Legal: N-to-1 standard contracts, audit logs/processes, SLA's
 - Technology: Secure, N-to-1 open APIs for all participants
- Attribute Provider Network Benefits
 - Account control: new RP contracts, new User verifications, User attribute re-use
 - Attribute Processing and Payment (APP) algorithms



Monetizing Attribute Exchange



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