ID.me

Building the Identity Layer of the Internet Blake Hall– CEO and Founder

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Agenda

ID.me Overview

Expanding Access

Fighting Fraud

Feedback & Discussion



Executive Summary

The Identity Layer for the Internet:

Digital applications are proliferating, but identity and login verification are still point solutions

Friction tied to point login and verification workflows places an enormous tax on commerce

Identity as a platform streamlines every workflow in society the same way Visa solved payments making this safe & simple for individuals



State of the ID.me Identity Network

39M+ Members

75K Daily Signups

7 Transactions/User

405 Organizations

- Leading The Way
- First identity network in America to make digital credentials portable across government, healthcare, and commerce.
- Deeply entrenched within 405 organizations as a critical tool users leverage to login or verify
- Treated by customers as a valuable channel to increase service delivery
- Contracts with 22 states using ID.me for PUA unemployment verification. ID.me has blocked 1.2M fraudulent claims through 1/31, sparing taxpayers a loss of over \$24 billion.



CERTIFIED

Certified NIST 80063-3
IAL2/AAL2 Credential
Service Provider (CSP) with
Unsupervised & Supervised
Remote proofing

SECURE

Leverages remote verification of IDs, MNO data, fraud algorithms, & FIPS 1402 level encryption

PORTABLE

Delivers Identityas-a-Service through federated identity protocols: SAML 2.0, OAuth 2.0, OIDC 1

An Identity Network Built for Consumers



Networked Sites Credential Portability

Digital Identity is Broken

Portable logins aren't trusted and trusted logins aren't portable

Login	with	Facebook
3		

ID.me fills the Trusted & Portable Role

Login with Google

Login with Amazon

AT&T, Citibank, Wells Fargo

Credential Identity & Authentication

Civic Benefits

Commerce

Signatures/Notarization

Employment

At the same time, identity underpins literally every transaction in society



Legal Rights

Education

Healthcare

Streaming Subscriptions **Financial Services**



ID.me provides online NIST 80063-3 IAL2 and AAL2 options for all users -- even for those users who don't have a presence in records

MOST COMMON

RELIEF VALVE

OPPORTUNISTIC

ONLINE, SELFSERVE

VIRTUAL INPERSON PROOFING
VIA
VIDEO CONFERENCE CHAT WITH
AN ID.ME
TRAINED CALL CENTER AGENT

IN-PERSON PROOFING WITH TRUSTED REFEREE

If user hits a roadblock verifying their identity online.

Trained agent proofs user to NIST IAL2 via video chat

User goes to a
Trusted Referee
location and proofs
in-person

ID.me provides an orchestration platform for validation, verification, and authentication that partners can configure according to risk

Verification

- Government ID (Strong)
- Subscription Phone/Telecoms (Strong)
- Facial Liveness (Strong)
- Video Proofing (Strong)
- Knowledge Based Verification (Fair)

Validation

- Credit Bureaus
- Mobile Network
 Operators/Telecoms
- DMVs
- State Licensing Data
- Many Additional Registration Authorities

Multi-Factor Authentication

- Enhanced SMS
- Native App Push
- Native App TOTP
- FIDO U2F Tokens
- Fraud/Device
 Intelligence Feeds



Organizations select from a menu of turnkey policies to map the appropriate level of legal ID proofing based on risk and requirements

KBA Replacement

Fortified Identity

NIST 800-63-3 IAL2:

Document Verification OR Telecom Verification

Document Verification **AND Telecom** Verification OR **Face Liveness**

Document Verification AND Telecom Verification AND Selfie with Matching



Identifying Special Populations and Roles

ID.me is uniquely architected to validate if a given person is also:

- a member of the military/veteran
- a student
- a teacher
- a first responder
- low-income
- a healthcare provider
- an employee



ID.me provides configurable authentilD.me provides configurable authentication policies based on risk and attributes

Strong Validation, but Weak Verification

Strong Validation & Strong Verification

1. Group Verification

Clients

Retail, Automotive, Subscription Services

Solution

Verify group affiliation to provide exclusive access to benefits

Product Variations

- a. Military
- b. Student
- c. Teacher
- d. First Responder
 - e. Government Employee
- f. Company Employee
 - g. Nurses
 - h. Doctors
 - i. Income

2. SCRA Monitoring

Clients

Financial Institutions, Telecoms

Solution

Automatically identify SCRA-protected individuals in order to appropriately adjust interest rates and adequately handle other protections

Product Variations

- a. Single RecordVerificationb. Bulk Verification
- D. Duik Verillication
- c. On-going Monitoring

3. Document Verification

Clients

Financial Institutions, Gambling, Shared Economy

Solution

API-driven - Use ID document (driver's license or passport) to verify identity. Can be combined with selfie and selfie + liveness.

Product Variations

- a. Bronze
- b. Silver
- c. Gold
- d. AMVAA Add-On

4. KBA Replacement

Clients

State and Local Government, Hospitality, Gaming, Healthcare (Patient), Financial Services

Solution

Identity verification flow where user can verify identity using Mobile Identity Verification OR Document Verification

Product Variations

a. ID.me CSP b. White-Label CSP

5. Fortified Identity

Clients

State and Local Government, Hospitality, Gaming, Healthcare (Patient), Financial Services

Solution

Identity verification flow where user can verify identity using Mobile Identity Verification AND Document Verification

Product Variations

a. ID.me CSP

b. White-Label CSP

6. NIST 800-63-3 IAL2/AAL2

Clients

Federal, State, Local Government, Healthcare

Solution

NIST 800-63-2 LOA3 or NIST 800-63-3 IAL2/AAL2 credentialing flow. Combines attribute validation, device verification, document verification, with biometric matching, or Virtual In-Person or In-Person proofing

Product Variations

- a. ID.me CSP
- b. White-Label CSP

7. EPCS Identity Proofing

Clients

Healthcare (EPCS)

Solution

NIST 800-63-3
identity proofing and
authentication,
combined with
medical provider
verification

Product Variations

a. ID.me CSP



ID.me Offers Complete MFA Capabilities

Enhanced SMS: ID.me offers fortified SMS by verifying the enrolled device during proofing and checking the device during subsequent logins

Phone call: 20% of adults over the age of 65 do not own a cell phone. Users can verify using a 6digit security code sent by voice to landline.

Code generator: Users can use a code generator app on iOS or Android. Code generator apps work even when there is no cell signal.

ID.me native app: With the ID.me Wallet app, users will receive a push notification which prompts the user to authenticate via touch ID or PIN code.

Security key: Users can use FIDO U2F security keys as a second factor. The physical token is bound to the user's identity.



Users who go through ID.me's Unsupervised Remote flows must have a phone with tenure, a valid government ID with photo, and pass a selfie match step

Market for identity verification is moving from knowledge-based methods to possession and biometric based methods.

Knowledge-Based Verification (KBV)

Inherently weak. Answers available on dark web.

Driver's License or Passport

Selfie with Liveness

Device & Telecom Verification

To prove with confidence that the user is who they claim to be, the user should prove that they physically possess something that reflects their identity – something with a reputation built over time or is hard to forge.



Face Match (1:1) enhances privacy and prevents identity theft while Face Surveillance (1:Many) is much more problematic

FACE MATCH

FACE SURVEILLANCE



ID.me provides a federally certified video chat solution so all users can verify

ID.me's Virtual InPerson Proofing ensures all users can prove their identity online in minutes at different assurance levels:

- Users who present a highrisk so a recorded video session would provide a strong deterrent to fraud
- Users who are recent immigrants
- Users whose information is entered into financial and/or utility records inaccurately
- Users with a limited credit history with credit bureaus
- Users with a limited history in utility records
- Users who are uncomfortable with technology and require additional assistance



No Identity Left Behind

Users who don't have credit history or who need help can use their government ID and video chat to verify their identity in minutes.

 NIST 800-63-3 Supervised Remote certified

 Individuals can use two Primary IDs OR one Primary ID and two Secondary documents

 Sessions are recorded for audit purposes

Agents are all USbased



ID.me provides trust and access to the digital and physical application layers without tracking consumer behavior and data within those apps

Surveillance State

Voyeur State

Trust Layer



2
Fighting Fraud



ID.me - Fighting Fraud

19 states are currently using ID.me for PUA unemployment verification

Blocked an estimated **895,974k fraudulent** claims through 1/31

Primary Fraud

Vectors

Social Engineering: legitimate owner of identity (victim) unwittingly helps the attacker perpetrate fraud

Secondary Phone: criminal uses breached PII to register a phone in the victim's name with the telecom to defeat carrier verification

Fraudulent Documents: suspicious documents uploaded appear to be clearly fabricated, edited, or altered

Prevented over **\$17 billion** in taxpayer loss to fraudulent payments

900% Increase in dark web traffic related to ID.me since Oct-2020

Mitigating Controls

Bolster Messaging: ID.me notifies individuals at their phone number of record that their identity was used at an agency– similar to banks and credit cards

Device Verification ID.me monitors for a single device and/or IP tied to multiple verified accounts, different phone numbers and/or SIMs

Machine Learning Algorithms: ID.me monitors for duplicate document images and numbers, and leverages ML/AI to detect fabricated elements



Types of Fraud we're seeing across our network

- Basic Identity Theft (18 20% of Claims): an attacker leveragesstolen personal datato file a claim in the victim's name.
- Social Engineering (7.5- 10% of Claims): an attacker convinces a victim they are verifying their identity for a job or to get prize money.
- Face Matching (2 2.5% of Claims): an attacker holds up a picture, video, and, increasingly a computer generated 3-D printed mask of the victim's face.
- Prisoner Fraud (Unknown % of Claims): incarcerated individuals who are ineligible to file claims do so anyway.
- First-Party Fraud (Unknown % of Claims):an attacker convinces a mule-- an individual who knowingly aids the attacker -- to let the attacker file a claim in the mule's identity in exchange for a cut of the claims payment. The mule then contacts law enforcement and pretends to be a victim of identity theft.
- Synthetic Identity Theft (Unknown % Claims): an attacker creates a fictional identity in credit records and uses the fake or synthetic identity to file a claim for an identity that does not exist



Social engineering attacks **7.5 – 10%** of gross claims volume across our state partners.

- Industrial scale telemarketing style operation with specific scams targeted at specific demographics (e.g. prize money scams to the elderly, business scams to middle-aged business owners, and job scams targeted against young people).
- 50%+ of total out of state applicants are fraud via this attack vector.
- Organized crime is succeeding in manipulating victims about 20% of the time.



Fraudsters are even wearing masks to evade us



Criminals are increasingly using computer generated 3-D masks to attempt to commit identity theft but they have not been successful



Dark web chatter validates the effectiveness of our controls



Meanwhile, SBA is getting hammered with fraud tied to PPP



We are defending American agencies against nation-state attacks



Thank You!

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About ID.me

ID.me is the next-generation digital identity platform that enables trusted and convenient interactions between individuals and organizations. ID.me provides seamless online identity verification for government, financial services, and healthcare to facilitate access to high value services online and keep them safe from fraud. The platform brings together best-in-class identity and fraud vendors into a comprehensive, easy-to-deploy solution for partners. For more information, visit www.ID.me.

