

ID.me

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

Social Security Advisory Board
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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

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An Identity Network Built for Consumers

Digital Identity is Broken

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

Networked Sites Credential Portability

Login with Facebook

ID.me fills the Trusted & Portable Role

Login with Google

Login with Amazon

AT&T, Citibank, Wells Fargo

Credential Identity & Authentication

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



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

ONLINE, SELF-SERVE

If user hits a roadblock verifying their identity online.

RELIEF VALVE

**VIRTUAL IN-PERSON PROOFING
VIA
VIDEO CONFERENCE CHAT WITH
AN ID.ME
TRAINED CALL CENTER AGENT**

Trained agent proofs user to NIST IAL2 via video chat

OPPORTUNISTIC

**IN-PERSON PROOFING
WITH TRUSTED REFEREE**

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

**Document Verification
OR Telecom Verification**

Fortified Identity

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

NIST 800-63-3 IAL2:

**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 authentication policies based on risk and attributes

Strong Validation, but Weak Verification

Strong Validation & Strong Verification

1. Group Verification	2. SCRA Monitoring	3. Document Verification	4. KBA Replacement	5. Fortified Identity	6. NIST 800-63-3 IAL2/AAL2	7. EPCS Identity Proofing
<p>Clients Retail, Automotive, Subscription Services</p> <p>Solution Verify group affiliation to provide exclusive access to benefits</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. Military b. Student c. Teacher d. First Responder e. Government Employee f. Company Employee g. Nurses h. Doctors i. Income 	<p>Clients Financial Institutions, Telecoms</p> <p>Solution Automatically identify SCRA-protected individuals in order to appropriately adjust interest rates and adequately handle other protections</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. Single Record Verification b. Bulk Verification c. On-going Monitoring 	<p>Clients Financial Institutions, Gambling, Shared Economy</p> <p>Solution API-driven - Use ID document (driver's license or passport) to verify identity. Can be combined with selfie and selfie + liveness.</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. Bronze b. Silver c. Gold d. AMVAA Add-On 	<p>Clients State and Local Government, Hospitality, Gaming, Healthcare (Patient), Financial Services</p> <p>Solution Identity verification flow where user can verify identity using Mobile Identity Verification <u>OR</u> Document Verification</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. ID.me CSP b. White-Label CSP 	<p>Clients State and Local Government, Hospitality, Gaming, Healthcare (Patient), Financial Services</p> <p>Solution Identity verification flow where user can verify identity using Mobile Identity Verification <u>AND</u> Document Verification</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. ID.me CSP b. White-Label CSP 	<p>Clients Federal, State, Local Government, Healthcare</p> <p>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</p> <p>Product Variations</p> <ul style="list-style-type: none"> a. ID.me CSP b. White-Label CSP 	<p>Clients Healthcare (EPCS)</p> <p>Solution NIST 800-63-3 identity proofing and authentication, combined with medical provider verification</p> <p>Product Variations</p> <ul style="list-style-type: none"> 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 6 digit 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 high risk 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

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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

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

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

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

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 leverages stolen personal data to 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!

Blake Hall

Founder & CEO

O: 703-639-0052

blake@ID.me

Twitter: [@blake_hall](https://twitter.com/blake_hall)

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**.