

OARO IDENTITY / FRICTIONLESS BIOMETRIC AUTHENTICATION WITH BLOCKCHAIN DIGITAL IDENTITY

Data Sheet

Identity management and the safeguarding of data are critical functions of all organizations. Traditional solutions are increasingly incapable of providing both the user experience and level of security required by today's business environment. This trend is evidenced by the growing frequency of massive data breaches among industry leaders and the public sector.

OARO IDENTITY is an end-to-end solution enabling our clients to authenticate and authorize users across devices, business lines and organizational boundaries, while reducing complexity, cost and improving user experience and security.

Digital user enrollment has never been easier. Verify identities with biometrics, extract and validate data from passports, driver's licenses or ID cards, and complete the transaction with an intuitive electronic signature. OARO is an Electronic Trust Service Provider under EU law and provides electronic signatures that are fully compliant with US and Canadian regulations.

KEY BUSINESS BENEFITS

- Enhance onboarding and login user experience
- Cost and time savings
- Passwordless
- Simplify identity across business lines and applications
- Enable biometric authentication without storing personal data
- Improve cybersecurity through advanced cryptography
- Increase cross-selling revenues with portable identities

HOW IT WORKS:



Scan photo ID for validation and data extraction.



User records a selfie video to verify their identity.



Registration complete.

FACE RECOGNITION LOGIN ON ANY DEVICE, ANYWHERE, ANYTIME.



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Use Cases

- Client Onboarding
- electronic Know Your Customer and Anti Money Laundering (eKYC/AML)
- Supplier Credentials
- Account Opening
- Visitor Management
- Employee Single-Sign On (SSO)
- Identity as a Service
- Self-Sovereign Identity
- Electronic Voting
- Government Digital Identity
- Age Verification

OARO IDENTITY mitigates the risk of several cyberattack threat vectors including phishing, replay and brute force attacks. In comparison with usernames and passwords, an OARO IDENTITY does not contain any personal information that can be stolen by an attacker in order to gain access to other accounts controlled by a user. This substantially reduces legal and reputational risks arising from data breaches revealing user credentials. User access privileges can be written into Smart Contracts that are part of the blockchain and can't be modified without permission. Unlike centralized systems, the network will automatically reject unauthorized changes to these rules. Changes can be logged in the blockchain itself, creating a built-in, tamper-proof audit trail.

Features & Functionalities

FACE RECOGNITION

OARO's proprietary machine learning algorithms can spot sophisticated image or video attacks designed by cyber criminals to mimic real people. So-called replay and presentation attacks are prevented by analysis of video frames, examining areas around the eyes, nose and mouth for signs of use of masks, or video modification ('deepfakes'). OARO IDENTITY'S cutting-edge facial recognition technology delivers a near 0.00% False Positive match rate and less than 1% False Negative match rate.

OARO IDENTITY also offers the option of liveness detection, which prompts the user to smile, blink, or turn their head in a randomized direction. A real 3D face moves differently from a series of computer generated 2D images, allowing our platform to verify a living person is behind the camera.

ONE-TIME PASSWORD

OARO offers multi-factor authentication using a One-time Password (OTP) sent by email or SMS.

INSTANT PHOTO ID VERIFICATION: SUPPORT FOR OVER 196 COUNTRIES

- Passports, Driver's Licenses, National Identity Cards, Military Identification, and more.
- Optical Character Recognition can extract personal data and pre-fill into online enrollment forms

INTEGRATION: AVAILABLE ON WEB, CLOUD, MOBILE

OARO IDENTITY can be rapidly deployed in-environment. Secure your existing applications using our REST API (Application Program Interface) for web applications, or Software Development Kit (SDK) for Android and iOS mobile apps.



CASE STUDY

Electoral Institute of Mexico City (IECM)



Verified Digital Identity for eVoting and Citizen Participation

About the Client:

- Electoral authority for elections and procedures for citizen participation
- 33 electoral districts
- 7,519,537 voters (2018)

In June 2019, changes to electoral laws in Mexico City came into effect, introducing direct democracy through an online citizen participation platform.

OARO provides Identity as a Service to IECM's Digital Platform for Citizen Participation, verifying the identity and eligibility of each voter using a photo ID scan and a video 'selfie'.

OARO's technology prevents multiple registrations by the same citizen, and registrations by ineligible voters.



CUSTOMER REPORTED:

- 75% reduction in time to onboard
 - Significant reduction in admin costs
-

WHY BLOCKCHAIN IDENTITY MANAGEMENT?

Blockchain Identity is an emerging technology that has the potential to mitigate many of the vulnerabilities associated with access management, consent and digital service delivery. In traditional enterprise IT systems, authentication credentials such as usernames, passwords, or biometric profiles are generally stored in an Active Directory, internal user management system or central user repository. Mass data breaches at leading companies have forced business leaders to rethink the effectiveness of this model.

ABOUT OARO

We use the digital world to help your business verify the real one.

We create truly secure, enterprise-grade applications that allow our clients to thrive in the digital economy.

Put simply, we're here to help the truth keep up.

The verification solution created by our computer scientists is one of the most sophisticated in the world; it's why major institutions and businesses from across the globe call us when they need to verify first, trust second.



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