Our system-based approach to digital ID leverages on government databases and/or identity documents to centrally issue and store citizen digital identity attributes.

Preserving the root of trust
When it comes to implementing a digital ID program, protecting citizen data is paramount. Governments are best positioned to provide the highest level of confidence and security when creating digital identities. To support them in their mission, IDEMIA offers digital ID solutions that are either based on already existing national databases and/or state-issued ID documents.

A system-based approach offers the most inclusive method for digital ID. This solution verifies available ID evidence against the government root of trust, ensuring the highest level of assurance for the issued digital ID. This approach suits countries where regulation allows the central storage and management of citizens’ personal information.

IDEMIA brings its expertise and advanced technology tailored to the states’ need to preserve the root of trust at enrollment, verification, issuance and authentication stages.

System-based digital ID
IDEMIA system-based solution allows online remote authentication and in-person ID verification with biometrics.

To onboard a citizen, the system enables the high quality capture and collection of the biographic and biometric proof presented by the citizen (passport, ID card, face, fingerprint, etc.). The biometric proof is securely transferred to a central system that manages cross-checks against public or private information systems. Finally, the system enables multi-factor authentication to be performed online.

The central implementation opens up scalability opportunities, enabling continuous improvements to the entire ecosystem immediately and uniformly.

The system-based approach features smartphone enablers for document (SmartDoc) and biometric (SmartBio) capture and liveness verification.

On the system side, the solution features different field-proven bricks of the IDEMIA IDWay suite of solutions: IDEMIA Open Platform System (IOPS), IDEMIA Biometric Recognition System (IBRS) and IDEMIA Population Registry System (IPRS).

Benefits

Central implementation
All data stored on a secure central server
Flexible and scalable

Easy integration
API integration with national database ecosystem
Identity verification API for service providers
Mobile SDK for native mobile app integration (Android and iOS)

Why IDEMIA?

Long-standing experience in civil ID with over 135 customers and over 3 billion identity documents issued worldwide.
Extensive experience and solid reputation in biometrics with 40 years of experience in the field and multiple biometric-based projects.

Expertise in A.I., cloud solutions, cryptography, cybersecurity, advanced analytics and innovative sensors for biometric data capture.
Holistic approach to digital identity that is adaptable to local regulations and frameworks.

Compliance
OSIA: Open Standard Identity API
NIST1 800-63—Active and Passive Liveness iBeta Present Attack Detection (PAD) Level 1 and 2
Open ID Connect
PSD2
IDEMIA offers the latest generation of self-enrollment applications, IDEMIA SmartDoc SDK and SmartBio SDK as well as a suite of biometric devices for assisted enrollment. These allow to collect proof of identity to ensure the highest level of issuance:

- Demographics (alpha)
- Portraits
- Fingerprints
- ID document images

The system issues digital identities and stores citizen attributes. It serves as a secure “System of Record” for service providers.

- IOPS: Allows the integration and orchestration of all components needed to design an ID management solution according to any governments’ needs.
- IBRS: Provides multi modal biometric services (portrait, fingerprint), and data storage.
- IPRS: Stores proof of identity (e.g. utility bills, birth certificates, proof of employment, etc.), and generates a unique identifier.

The authentication platform receives requests from service providers and ensures authentication as per defined multi-factor authentication policies (PIN, OTP, face, fingerprint).

Usages are various across the public and the private sector. The ability to open a bank account, file taxes, and access health services are just some of the opportunities with a national digital identity.

**Main deployment**

**Aadhaar, the Indian Government’s biometric identification project**

Launched in 2009, Aadhaar is the world’s largest multi-biometric digital identity program. Each resident has a unique 12-digit identification number (Aadhaar number) that is associated with three biometrics: irises, fingerprints, and face. To date, the program's adoption rate is over 95%.