mydigitalID™

Secure · Fast · Convenient

MyDigital ID is a national identity management and trusted digital form of identification used to authenticate users for online transactions.

It is also a transaction signing platform designed to address the vulnerabilities of its contemporary implementation such as insecure communication channels and storage of user credentials.

VALUE

MyDigital ID provides a platform for fast and secure execution of identity authentication, enabling users to interact with entities both in person and online. Most importantly, MyDigital ID authentication features can be widely integrated into any applications.

MyDigital ID is essential for fostering inclusive socioeconomic growth by facilitating access to Government services, financial services, social security benefits, education, healthcare, and many other critical services. It empowers individuals to unlock value and benefits as users can interact and transact with Government agencies, businesses, and institutions.

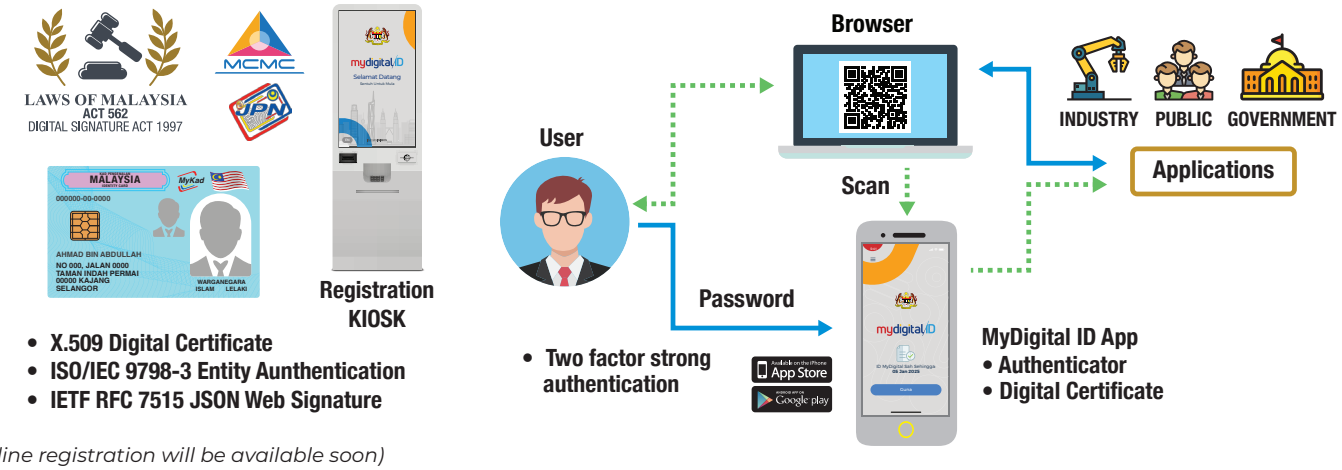
The adoption of MyDigital ID can generate immense economic value through efficiency gains such as cost and time savings. Furthermore, beyond economic benefits, MyDigital ID promotes social and political inclusion, rights protection and transparency.

MYDIGITAL ID IMPLEMENTATION GUIDELINES

- The original solution for Malaysia's digital landscape
- Developed by 100% local talents
- Active collaboration with SMEs, institutions, and local ecosystems
- Extensive use of the latest Artificial Intelligence (AI)
- Comply with the ESG (Environmental, Social, and Corporate Governance) standards
- Advanced security system
- Long-term sustainability

REGISTRATION AND APPLICATION

MyDigital ID simple registration and application process



(online registration will be available soon)

MyDigital ID will provide users with a high-assurance MyKad instrument, along with an equivalently high-assurance authenticator applicable across a wide spectrum of use cases, including routine web and mobile application transactions, as well as Internet of Things (IoT) and blockchain applicability. It is also utilised for online authentication to securely authenticate with online service providers or sign online transactions.

ADVANTAGES OF MYDIGITAL ID

- Valid and Secure Self-Authentication
- Secure, Fast And Easy For Online Transaction Purposes
- Single Authentication Platform For Multiple Applications
- Facilitating Access To Online Government Services
- Reducing the Risk of Online Identity Fraud
- Eliminating Different Types of Online Identification Methods

FEATURES

One single identification
Enables accessibility to all Government and private digital services

Trusted digital ecosystem
Establishes a secure and reliable environment for digital interactions

High security
Trusted identity authentication based on user password and unique device physicality

Secure identity management
User-specific through Certificate Signing Request and receipt by Certificate Authorities

Android and iOS compatible
Leverages on security characteristics of both mobile operating systems

TECHNOLOGY BENEFITS

Security
Protects against phishing attack, ensuring irrefutable authentication outcomes

Privacy
Digital certificates ensure a minimal privacy footprint as they do not require real-time accessibility to centralised identity management system

Acceptability
Leverages the assurance and ubiquity of MyKad to undertake authentication and digital signing of transactions at the national level

Legality
Complies with the Signature Act 1997, the Electronic Commerce Act 2006, and the Personal Data Protection Act 2010

Users of MyDigital ID are assured of

- Trusted issuance of digital certificates
- Secure protection of digital certificate keys on mobile devices
- Trusted authentication for online services
- Non-repudiation of digital identity certification

Future plans for MyDigital ID includes:

1. **Cyber-physical access control**
   - Physical access control based on MyDigital ID on a mobile phone
   - Parcel drop boxes or drone deliveries can utilise similar technology to unlock a locker using MyDigital ID on a mobile phone
2. **Privacy protection**
   - Explicit consent by data owners using MyDigital ID to digitally sign consent forms before disclosing privacy information to a service provider
   - Anonymous attestation of specific attributes (e.g. age requirement, health, and marital status)
3. **Integration with Blockchain**
   - To serve as an authentication method for Blockchain
   - Users to have full control over the authorisation chain used in the service provider system, where no root administrator is needed

Key Success Factors

LOCAL CONTENT

Full system and technology development by local talent. MIMOS as Implementation Agency engaging with local SMEs

JOB CREATION

Potential >1000 new technology based job creations. Vertical solutions to be outsourced to local ICT SMEs

NATIONAL SOVEREIGNTY

Developed and hosted locally, preserving data sovereignty. Data resides locally and managed by MIMOS

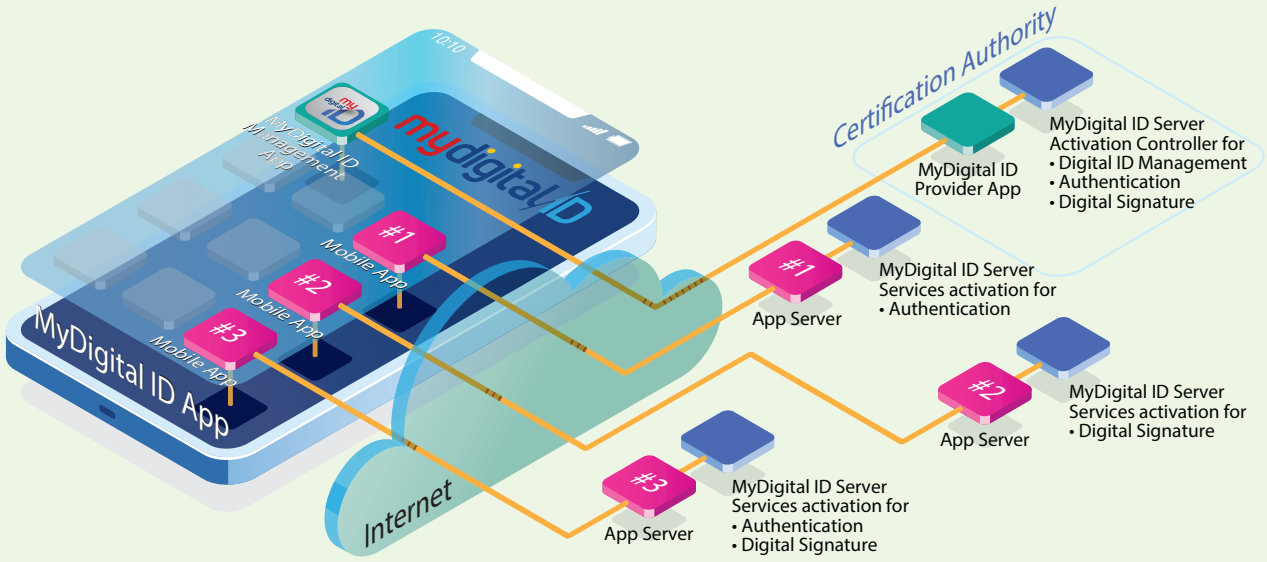
HIGHLY SECURED

Public Key Infrastructure security features to incorporate state-of-the-art locally developed Post Quantum Cryptograhy

BUSINESS SUSTAINABILTY

Support government / MIMOS innovative initiatives as well as generating new revenue streams

Technical Info



MyDigital ID ecosystem

FRAMEWORK

MyDigital ID framework offers four basic services to Service Provider systems:

1. Client-side key generation and Certificate Signing Request submission to the server
2. Server-side certificate issuance and receipt at the client
3. Client-side authentication for secure session establishment and server verification
4. Client-side signing of transaction and server verification

ECOSYSTEM

MyDigital ID contains user digital identity which can be utilised by other mobile applications for authentication and digital signature functions.

An ecosystem of mobile applications can be created to leverage on common user pool. This ecosystem can be extended to international markets, allowing access to larger user base using a standardised authentication method.

INTELLECTUAL PROPERTY

No	Patent Number	Title
1	PI 2020005133	Socket Association For Transfer Of Socket Authentication Status
2	PI 2017705186	Physical Access Control Via Challenge-Response Interaction
3	PI 2018001925	Security Framework For Transaction Signing
4	PI 2019007776	Transaction Signing With Ergonomic Addressing And Compact Encapsulation
5	PI 2019007775	Crypto-Physical Lock Control And Authorisation
6	PI 2017705162	Transaction Signing On Multiple Channels
7	PI 2017705024	Pseudonymisation And Reversal Of Personally Identifiable Information
8	PI 2015702370	Secure Installation And Management Of Mobile Applications For Multi-Mode User Authentication

(some of the filed patent, as of this publication date)

The MyDigital ID technical solution boasts an impressive portfolio of 32 filed patents spanning diverse technical domains. These include cutting-edge innovations in authentication, access control, secure transaction signing, and crypto-physical lock control and authorisation.

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