



SINGAPORE - JUNE 2024



Population 34.7 million

Source : https://www.worldometers.info/worldpopulation/malaysiapopulation/#google_vignette

Median age is 30.8 years (26.8 %)

Source : https://www.worldometers.info/world-population/malaysia-population/#google_vignette

Mobile Broadband Penetration Rate 132.1% (2024)

Source:

https://www.mcmc.gov.my/skmmgovmy/media/ General/Resources/C-M-1Q-2024_BI.pdf

Internet Penetration Rate 97.4% (2024)

Source : https://datareportal.com/reports/digital-2024-malaysia

Malaysia Digital
Signature Act 1997
(DSA)

Certificate Authority
Pos Digicert Sdn Bhd
MSC Trustgate Sdn Bhd
Telekom Applied Business Sdn Bhd
Raffcomm Technologies Sdn Bhd

Digital Certificate issued 1.7 million (2022) and accumulated to 18.6 million

Source:

https://www.mcmc.gov.my/skmmgovmy/me dia/General/pdf/MCMC-IPR-2022 ENG Page.pdf Usage of Digital Certificate in Government Services at 96.2% in 2022

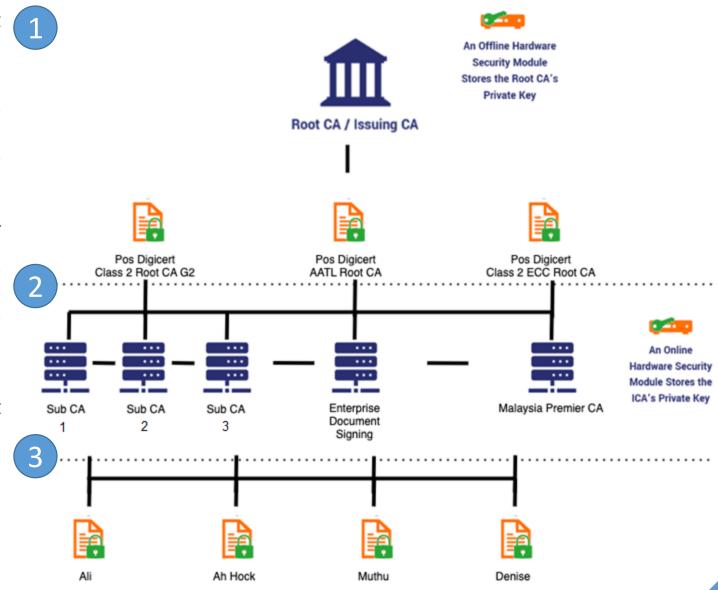
Source:

https://www.mcmc.gov.my/skmmgovmy/media/ General/pdf/MCMC-IPR-2022 ENG Page.pdf

POS DIGICERT'S CURRENT CHAIN OF TRUST

Certificate has to be traceable back to the trust root it was signed off. There are 3 parts to the chain of trust:

- **1- Root Certificate (Issuing)** A root certificate is a digital certificate that belongs to the issuing Certificate Authority. The root certificates are closely guarded by the Certificate Authorities
- 2- Intermediate Certificate (Issuing) Intermediate certificates act as middle-men between the protected root certificates and the server certificates issued out to the public. There will always be at least one intermediate certificate in a chain, but there can be more than one.
- **3- Digital Certificate (Leaf)** It is the digital certificate will be given to the end entity eg: Client Digital Certificate, SSL certificate and others





DIGITAL TRUST STACK

POS Digicert

TECHNOLOGY / SERVICES

G2B G2G

e.g: MAMPU GPKI,

E-Perolehan, E-Payment

Web Services

e.g: e-Filing (Tax) elnvoice

E-Licensina. eContract. E-Stamping

e.g:e-Filing E-Certification E-Scroll. Study Loan Agreement

G2C

e.g: Fintech, **Credit Rating** services, etc E-Agreement

Private

DIGITAL SIGNING SERVICE

Online and secured signing service

AUTHENTICATION SERVICE

Validated Identity service

INTERFACES / INTEGRATIONS

API Management

SDK (mobile)

TECHNOLOGY

SOLUTIONS

COMPLIANCES

Cryptography Certificate Engine OCSP/CRL **DTS Module**

HSM Key Mamt Center (KMC) Roaming Cert 2FA Cert in Mobile

Biometric Face Recognition **OCR** ΑI

SSO **Payment Gateway SMS Notification** Cloud Comp. **Data Analytics**

SOLUTIONS

DIGITAL CERTIFICATE **MANAGEMENT**

Digital Certificate LifeCycle **AATL Certificate** Registration Authority SSL Certificate

IDENTITY MANAGEMENT

Active Directory Identity Engine Identity Verification System Federated Identity Smart Card/Mobile **Security Devices CRM System Know Your Customer System**

ACTS

- Digital Signature Act 97
- Digital Signature Regulation 98
- Electronic Commerce Act 2006
- Date Time Stamping 2020
- National Digital ID Framework

GUIDELINES

- Risk Management in **Technology Central Bank**
- eKYC Policy
- Malaysia Digital Economy Blueprint, EPU, PMO

STANDARDS













Standards and Technology U.S Department of Commence



eSERVICES WITH PKI FOR PUBLIC SECTORS

There are 28 Ministries in Malaysia and more than 20 of them have embarked into PKI-based eServices ranging from G2G, G2B and G2C



Over 100,000 Authorised Government Staffs are using digital certificates

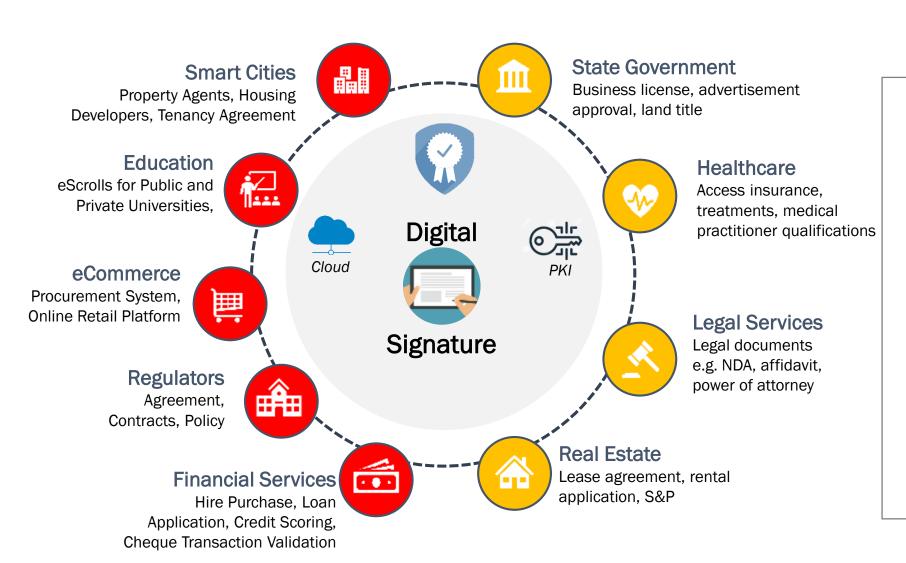
26 projects / ICT systems are integrated with MyGPKI



Over 6 million

unit digital certificates issued to under e-Filing project from Inland Revenue Board of Malaysia

eSERVICES WITH PKI FOR PRIVATE SECTORS



Key Success Factor



eKYC Platform



Trusted Digital ID (Digital Certificate)



Compliance with EiDAS



Tech & commercial partners



RMIT Guidelines

NEW PKI PROJECT INITIATIVES

1. National Digital Identity Initiative – MyDigitalID

- MyDigital ID is a national digital identity initiative with its main objectives are to ensure secure and valid identity verification for online services.
- MyDigital ID will be rolled out in four phases, starting with the members of the Malaysian Cabinet and followed by civil servants, government benefits recipients and finally the general public.

Parties	Benefits
PEOPLE /USERS	•Experience smooth, safe and data privacy-guaranteed online experience •Time and cost savings compared to counter transactions
GOVERNMENT	 Stimulate and drive the nation towards digital transformation to elevate trust and user's safety for online interactions. Improve online services quality more efficiently and cost savings service delivery.
ONLINE SERVICE PROVIDER	 Improving efficiency and cost savings in terms of user registration, develop and maintaining their digital identity verification systems Encourage offers of new online services such as finetech, platform economy, apps economy and others





NEW PKI PROJECT INITIATIVES

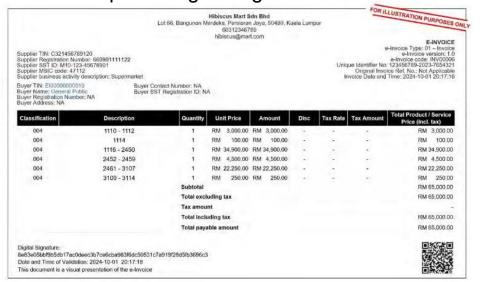
2. e-Invoice

- To support the growth of the digital economy, the Government intends to implement e-Invoice in stages in an effort to enhance the efficiency of Malaysia's tax administration management. This is in line with the Twelfth Malaysia Plan, where one of the key focus is on strengthening the digital services infrastructure and digitalising the tax administration.
- The e-Invoice will enable near real-time validation and storage of transactions, catering to Business-to-Business (B2B), Businessto-Consumer (B2C) and Business-to-Government (B2G) transactions.
- Below is the e-Invoice implementation timeline:

Targeted Taxpayers	Implementation Date
Taxpayers with an annual turnover or revenue of more than RM100 million	1 August 2024
Taxpayers with an annual turnover or revenue of more than RM25 million and up to RM100 million	1 January 2025
All taxpayers	1 July 2025



Sample of Digital Signed e-Invoice







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