

# Malaysia PKI Progress & PQC KL 2025 Invitation



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Asia PKI Consortium SSC Meeting |

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# Malaysia's PKI Landscape

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- Government-regulated PKI ecosystem under Malaysian Communication & Multimedia Commission (MCMC) since 1997

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- National Cyber Security Agency (NACSA) leads cybersecurity and cryptographic policy

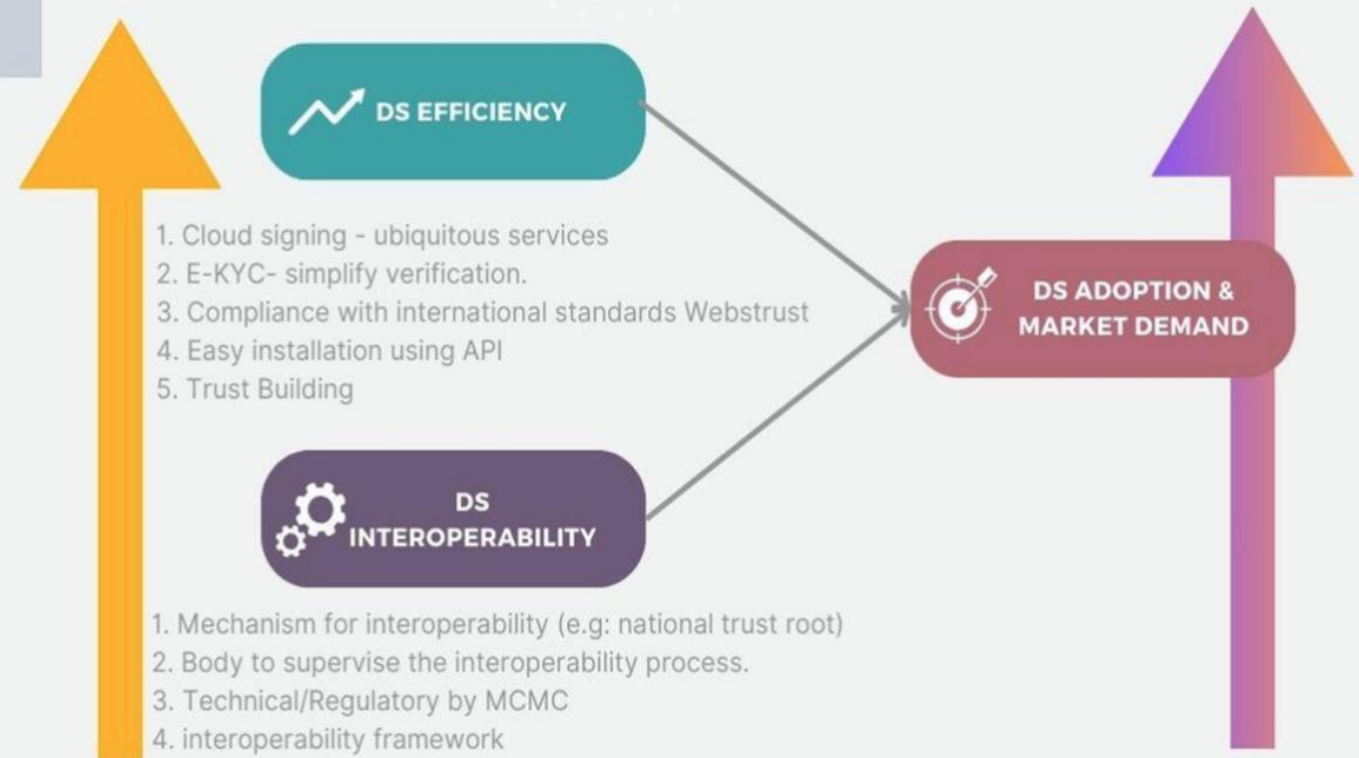
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- Growth in adoption of digital signatures in public and private sectors

ReSEARCH BY  
UNIVERSITY SAINS ISLAM  
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## THE RELATIONSHIP BETWEEN DIGITAL SIGNATURE (DS) EFFICIENCY AND INTEROPERABILITY AGAINST DEMAND AND ADOPTION.



# Key National Initiatives – e-INVOICE & MyDIGITAL ID

## E-Invoice Implementation

- Malaysia is rolling out e-Invoice in phases to strengthen tax administration dan digital economy efficiency
- Supports B2B, B2C and B2G transactions with near real time validation
- Requires high-assurance digital signatures
- All local CAs including Pos Digicert are involved

## MyDigital ID

- National digital identity app built on Malaysia Government PKI for secure authentication
- Adoption is growing but still hindered by integration issues with existing use-cases
























# Pos Digicert's Contributions

- NATIONALLY LICENSED CA UNDER MCMC

- WEBTRUST-COMPLIANT OPERATIONS AND GLOBAL INTEROPERABILITY

- SOLUTIONS FOR DIGITAL SIGNING SOLUTIONS, INVOICING, EPRESCRIPTION, EKYC AND MORE

## Pos Digicert Product and Solution – Stack for Digital Trust

IDENTITY	SIGNING	APPLICATION / FEATURES
<b>Identity verification</b>  eKYC  iDsaya  KYC  Trusted Database	<b>Digital Signing</b>  Signature Workflow  Cloud Signature  Qualified Signature  Document Signing with AI	 Long-Term Validation  eCredentia
<b>Authentication</b>  Strong Authentication  Biometric Authentication  Token Authentication	<b>Digital Certificates</b>  Remote Certificate  Electronic Seal  SSL Certificate  Time Stamping  Transaction Signing  QR Code	<b>AI Solution &amp; Digital Security</b> <ul style="list-style-type: none"> <li>• <a href="#">Certificate Lifecycle Management (CLM)</a></li> <li>• <a href="#">Trust Services</a></li> <li>• <a href="#">Agentic Ai &amp; Responsible AI Integration</a></li> <li>• Data &amp; Access Security</li> <li>• Application &amp; Web Security</li> <li>• Threat Detection &amp; Response</li> <li>• Enterprise Key Management (EKM)</li> <li>• Encryption Services</li> </ul>
<b>Digital Identity</b>  Digital Identity  Digicert Locker	<b>Public Key Infrastructure</b>  PKI as a Service  PKI Middleware	

# Post-Quantum Readiness

- NACSA spearheading national PQC readiness framework
- Multi-sector engagement with regulators and industry
- Pos Digicert supporting pilot deployments and advisory

# Post-Quantum Cryptography Journey

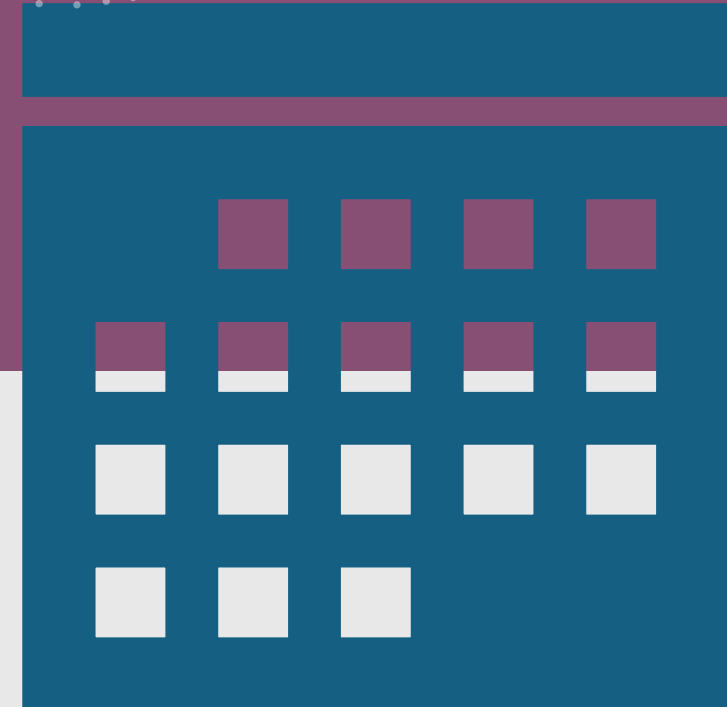
- POS DIGICERT is currently testing NIST-approved PQC algorithms
- We're raising awareness around industry and pushing for ecosystem readiness, especially for application/system owners to update libraries and architectures.
- Implementing PQC will involve significant cost, system upgrades, and changes to policy and compliance frameworks.
- Malaysia's revised National Cryptography Policy by NACSA was issued 22 January 2025, which provide clearer guidance and CAs like POS DIGICERT invited to give input.
- To future-proof our services and infrastructure, POS DIGICERT is now prioritizing **crypto agility**, ensuring we can transition rapidly and securely as cryptographic standards evolve.
- A major focus in 2025-2026 will be awareness and ecosystem preparedness.





# PQC Conference 2025 – Kuala Lumpur

- Date: 28–30 October 2025
- Venue: Connexion Conference & Event Centre (CEC)
- <https://pkic.org/events/2025/pqc-conference-kuala-lumpur-my/>



# Invitation to Asia PKIC Members

- Share your regional PKI and PQC experience
- Submit abstracts here:  
<https://tinyurl.com/PQC2025Abstract>
- Join technical panels, working groups, and solution showcases

# Closing Note

- Let's shape digital trust in Asia through shared leadership

- Pos Digicert looks forward to welcoming you in KL this October

- Together, we are stronger in the post-quantum future