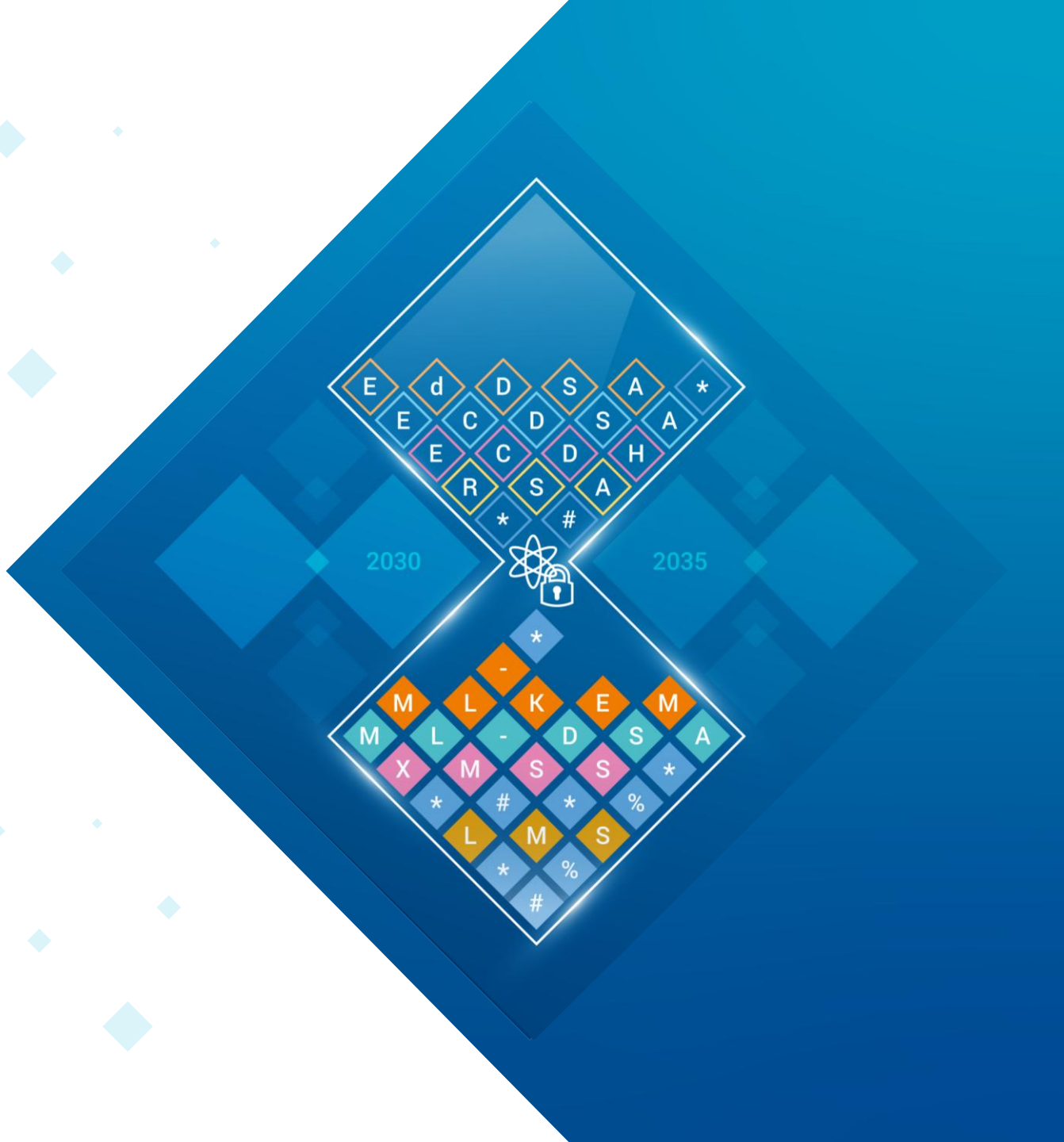
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The Better Choice for Trust
in the Digital Society

HSM and KMS Infrastructure for PQC Migration



Name : Teo Poh Soon, APAC Sales

APAC PQC Regulation Timeline

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Country	Primary Regulator	Target Sector	Plan Due / Legislative Status	Procurement Mandate	Full Migration Deadline
Singapore	CSA / MAS	CII & Financial	March 31, 2027	Jan 1, 2028 (PQC-ready required)	Dec 31, 2031
Australia	ASD / ACSC	Gov & Critical Infrastructure	End of 2026	Phased by data risk (2028)	End of 2030
Thailand	NCSA	CII, Finance, & Gov Services	In Parliamentary Vetting	Phased via QUANTA platform	2030 (Finance) / 2035 (All CII)
Indonesia	BSSN / Kemenko Polkam	Gov, Military, & Strategic Networks	In Parliamentary Vetting	2027 (Quantum VPN implementations)	2030 (Strategic Networks)
Japan	NCO / CRYPTREC	Government Agencies	Ongoing	2026 (Hybrid standards)	2035
Malaysia	NACSA	Gov & NCII Sectors	Ongoing Audits	Phased	2030 (Gov) / 2035 (NCII)
India	DoT	Telecom & Tech Infrastructure	—	2026 onward	Phased implementation

CSA PQC Readiness Index (CII)

- **31 Mar 2027 Submit Migration Plans:** CII owners must submit a comprehensive, Scrutiny-ready quantum-safe migration plan to the CSA. This heavily relies on building a complete cryptographic inventory first.
- **1 Jan 2028 Quantum-Safe Procurement:** All newly procured or implemented CII computers and systems with digital components must natively support quantum-safe algorithms or be designed as "quantum-safe ready“
- **31 Dec 2031 Migration Completion:** Full quantum-safe migration must be finalized across all critical computer systems. Legacy, vulnerable public-key cryptography should completely cease to be in use.

CSA Releases Guidance and Self-Assessment Tool to Help Organisations Prepare for Quantum-Safe Migration

Singapore Industry Collaboration

- National Quantum Strategy (NQS)
  - Incepted in 2023 with focus in Quantum with funding SGD300M
  - Core Pillars & Initiative
    - National Quantum Processor Initiative
    - National Quantum Computing Hub
    - National Quantum Sensor Porgram
    - National Quantum Federated Foundry
    - National Quantum-Safe Network Plus (NQSN+)
- iMDA Quantum Safe Network Task Force (QSNTF)
  - Incepted in 2023 with focus in QKD
  - Phase 1 standardize on QKD in 2023 - 2024
  - Phase 2 Certification in 2024 - 2025
  - Phase 3 QKD and PQC in 2026

https://www.imda.gov.sg/assets/82e2504a-bacc-4b6e-8f2b-f0e300fb3f53.pdf

- Singapore Universities PQCTF (Pending)
  - PQC Optimization
  - Implementation on use case
  - Knowledge and AI for PQC
- SEAQIA
  - Incepted in 2023 focus on Quantum Computer development

NATIONAL QUANTUM OFFICE SINGAPORE

INFOCOMM MEDIA DEVELOPMENT AUTHORITY

SEA QIA Southeast Asia Quantum Industry Association

Unrestricted

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Questions & downloads

Contact:

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2025 Utimaco PQC Readiness Report



Free PQC Simulator

PQC Excellent Lab

Provide a demo lab for PQC migration to train the industry for PQC Migration. Product and Solution include Crypto Discovery, Assessment, Consultanting, PKI, HSM and KMS.

Participants

- Singapore U PQCTF (Pending)
- BSSN PQC Collaboration (Pending)
- UTCC PQC Excellence Demo Lab
- UNIMY PQC Research

Industry Collaborator

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i-Sprint

PQ Station (Pending)

BDO (Pending)

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