ITU Digital Financial Services Security Clinic Asia Pacific Region

Digital security measures in Malaysian financial sector

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Fostering inclusive digital financial services in Malaysia *Current priorities*





BNM's Risk Management in Technology (RMiT) sets the minimum baseline to raise industry standards

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Effective board oversight on IT and cyber risks

 Reviewing and approving IT and cyber security strategic plans and technology risk appetite through a designated board-level committee

Strong second line of defence for technology risk management

- Fortifying the independent enterprise-wide technology risk function to implement technology risk management and cyber resilience frameworks
- Designate a CISO responsible for this function



4 key thrusts of the RMiT

Application on a proportionate basis where additional standards are imposed for larger FIs

Building resilient IT infrastructure to ensure continued service availability

- Embedding security considerations in the application systems and network services
- Time limits on unplanned downtime
- Risk controls for cloud computing

04

Greater cyber resilience to emerging risks associated with new technologies

- Establishment of Security Operations Centre capabilities to monitor, identify and respond to potential breaches
- Periodic security assessments to provide independent view of the state of the financial institution's cyber security



Strengthened expectations on RMiT to safeguard against risks from cloud adoption in June 2023

Cloud controls in RMiT emphasise on strong governance, clarity of FI's responsibility, and robust information security controls over the solution development lifecycle.



The updated PD is available at: https://www.bnm.gov.my/documents/20124/938039/PD-RMiT-June2023.pdf



Continuous 'whole-of-nation' efforts to combat digital fraud is essential to preserve confidence in online banking and digital payments

Continuous collaboration between BNM, financial institutions and law enforcement agencies has yielded results

Three workstreams to sustain vigilance and promote continuous investment to get ahead of constantly-evolving scams

Prevention	Frequent supervisory guidance to FIs on enhancing security of online banking since 2021	2	Operationalisation of National Scam Response Centre (NSRC) to block and trace stolen funds
	Implementation of 5 key countermeasures announced in Sep 2022		997 hotline facilitated efforts to trace suspected fraudulent activity and flag mule accounts
	Additional guidance for effective protection of high-risk and vulnerable customer segments	Education Recovery	Over 40,000 mule accounts disrupted by financial institutions since October 2022
	Issuance of enhanced standards on fraud detection systems and practices		Development of National Fraud Portal (expected to go live in 2024)
	Expansion of key countermeasures to non-bank payment providers		Development of Joint Responsibility Framework to foster fairer compensation for fraud victims
	On-going review of Risk Management in Technology policy to ensure FIs maintain highest standards of cybersecurity operation and technology risk management Enhancement of e-KYC policy to strengthen identity proofing		On-going awareness initiatives in collaboration with financial industry and government agencies

5 key countermeasures implementation

Migration away from SMS OTP

Tighten fraud detection

Cooling off period for first-time enrolment

Limit 1 customer to 1 mobile device

Dedicated 24/7 hotlines



On-going initiatives

Support nationwide secure digital initiatives

MCMC* issued directive to prohibit SMS with hyperlinks in July 2023.

Inter-industry collaboration to take down/block malicious content, websites

Support enactment of new legislation "Digital Safety Bill"

*Malaysian Communications and Multimedia Commission

