



Building a better working world

Cyber and privacy risk management

Responding to the Bermuda cyber and privacy regulatory requirements

What we are seeing in the market

The cyber threat landscape is increasing and expanding. As we move to an experience-led economy powered by data, there is also an increased focus on data privacy, underpinned by rising customer expectations and increased regulatory scrutiny. The pace and scale of regulatory change over the last five years have greatly impacted organizations' approach to cyber and privacy risk management both locally and globally.

only **7%** of organizations would describe cybersecurity as enabling innovation; most choose terms such as "compliance-driven" and "risk-averse."

86% of organizations say that crisis prevention and compliance remain the top drivers of new or increased security spending.



2019 saw the **highest-ever** fines issued by privacy regulators; meanwhile, data breaches reported under the General Data Protection Regulation (GDPR) more than **doubled** over the prior year.

6 in 10 businesses only consider cybersecurity after it's already too late.

Bermuda regulatory landscape: what's changing?

BMA Insurance Cyber Risk Management Code of Practice 2019

- ▶ The code sets out risk management principles and leading-practice standards to make sure that regulated insurers:
 - ▶ Establish a sound and robust cyber risk management program
 - ▶ Implement a minimum set of requirements for technical and business process controls
- ▶ Failure to comply with the provisions will be a factor taken into account when determining whether a licensed insurer is meeting its obligation to conduct business in a sound and prudent manner.
- ▶ Insurers must regularly assess cyber risks arising from their business model and implement higher standards than those outlined in the code, where leading practice warrants it.
- ▶ The BMA will assess compliance in a proportionate manner relative to the insurer's nature, scale and complexity.

Personal Information Protection Act (PIPA), 2016

- ▶ The PIPA outlines the requirements for organizations that process personal information, as well as the rights granted to individuals regarding the use of their personal information by such organizations.
- ▶ This legislation, which follows international best practice, applies to all organizations, businesses and the government that process personal information in Bermuda.

What does this mean for you?

Board

What are we doing about cyber and privacy risk?

Chief executive officer

Are our cybersecurity and data strategies aligned with our business strategy?

Audit committee

Do we have the right IT and operational controls to address cyber and privacy risk?

Chief compliance officer

Is the organization complying with the BMA's Insurance Cyber Risk Management Code of Practice? Are we compliant with data privacy regulation?

Chief information security officer

Is there a cyber risk management program in place? Are responsibilities known? Are mature data governance and protection programs in place?

Chief risk officer

Do we know our cyber vulnerabilities? Do we know our privacy risk? How are we managing them?

Internal audit

Are controls documented? Do we have evidence of cyber defense and privacy compliance?

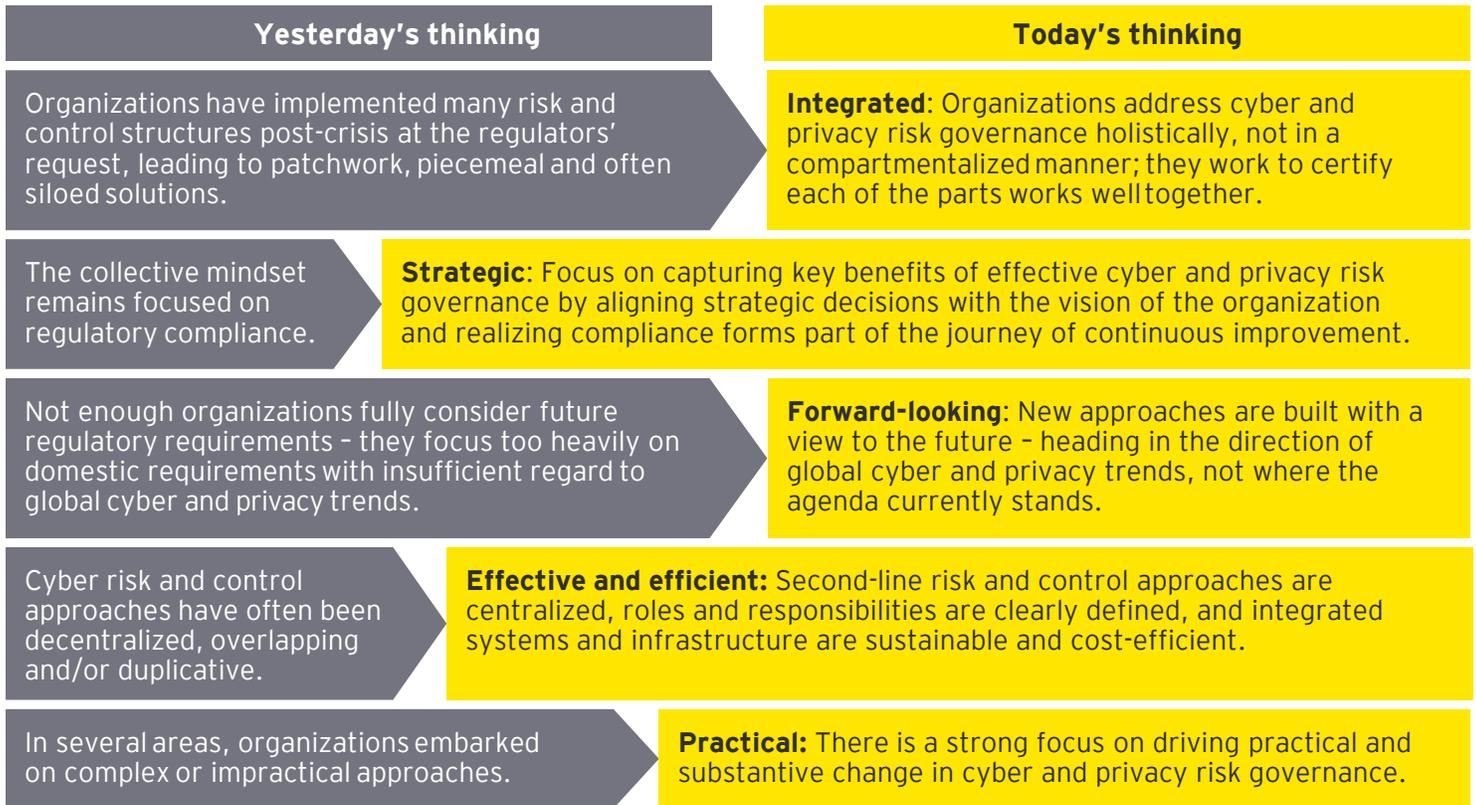
Functional leads

Do I have the proper lines of defense for cyber and privacy?

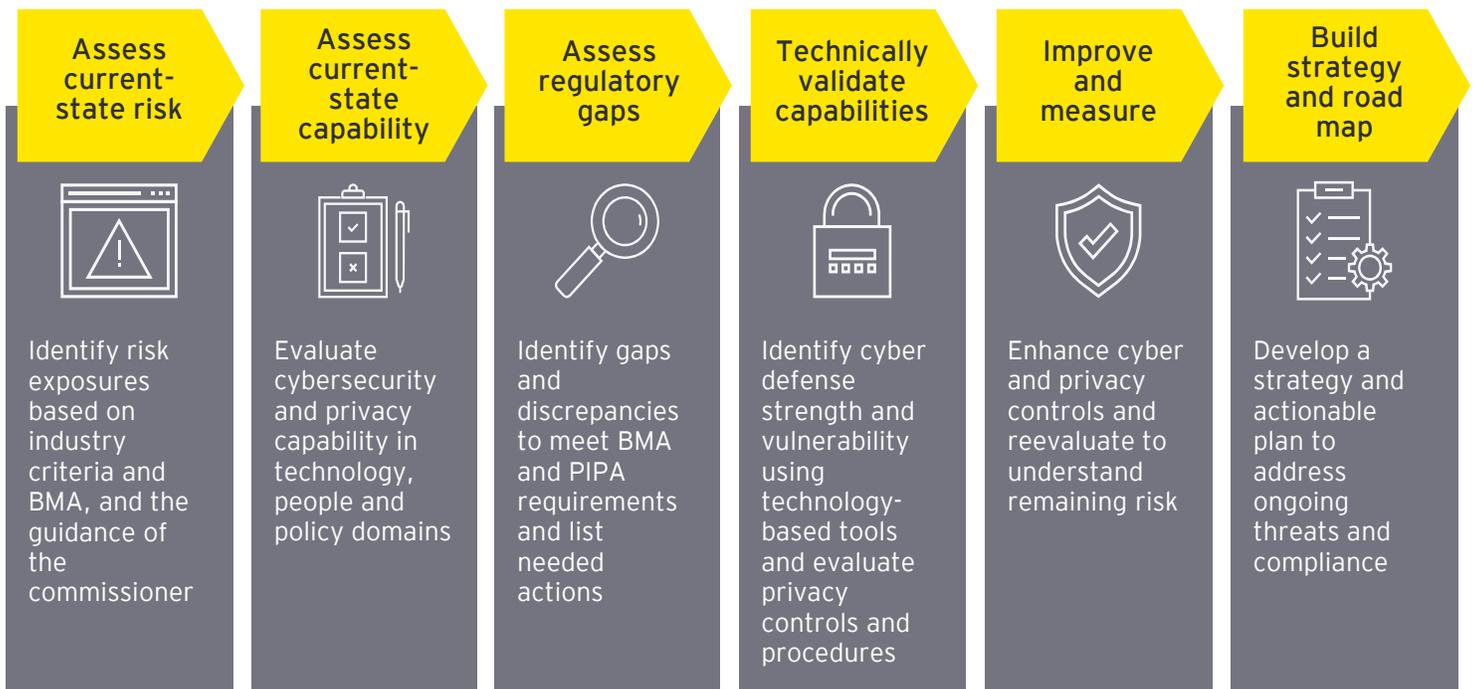


An effective approach to compliance

A new mindset is required to meet new and broader regulatory expectations and to enable the drive for change in a way that delivers real value to the business.



Mapping out your compliance journey



EY's insights on the key areas to comply with BMA cyber regulation

Impacted area	Key considerations
 <p data-bbox="456 254 695 583">Governance and cyber risk management</p>	<ul data-bbox="722 296 1528 548" style="list-style-type: none"> ▶ Define and document Cyber Risk Policy and approve it with the board of directors at least annually ▶ Appoint a Chief Information Security Officer (CISO) role to an appropriately qualified member of staff or outsourced resource ▶ Develop a cyber risk plan and approve it with the board ▶ Perform regular cyber risk assessments and retain the reports to be ready to be provided to the Authority upon request
<p data-bbox="456 590 695 978">Cybersecurity</p>	<ul data-bbox="722 632 1500 936" style="list-style-type: none"> ▶ Develop a cyber incident management procedure, including incident identification, containment and reporting to the Authority ▶ Perform staff cyber risk awareness trainings at least annually and adopt a security-by-design approach ▶ Implement appropriate security controls to protect desktop, mobile and network devices ▶ Perform regular cybersecurity testing, including penetration testing and vulnerability assessments
<p data-bbox="456 984 695 1234">Third-party risk management</p>	<ul data-bbox="722 1010 1528 1209" style="list-style-type: none"> ▶ Identify and evaluate the risks associated with third parties ▶ Define contractual terms and conditions that would enable you to manage appropriate risks ▶ Request for outsourced service providers to implement security policies, procedures and controls that are at least as stringent as the ones established within your own organization
<p data-bbox="456 1241 695 1470">Data security</p>	<ul data-bbox="722 1266 1500 1451" style="list-style-type: none"> ▶ Classify the information you hold in terms of its sensitivity, value and criticality ▶ Develop and implement a data protection policy including the requirements for data loss prevention, data retention, data sanitation and data backup in accordance with the data classification levels
<p data-bbox="456 1476 695 1640">IT operations</p>	<ul data-bbox="722 1501 1528 1619" style="list-style-type: none"> ▶ Document and implement the following processes to ensure the ongoing security and stability of IT operations: change management, incident management, access management, patch management, security events logging and monitoring
<p data-bbox="456 1646 695 1776">Cloud security</p>	<ul data-bbox="722 1671 1455 1755" style="list-style-type: none"> ▶ Assess the risks of the use of cloud environments and implement appropriate controls to address identified risks depending on cloud architecture
<p data-bbox="456 1782 695 2022">Business continuity</p>	<ul data-bbox="722 1839 1487 1976" style="list-style-type: none"> ▶ Develop and implement business continuity planning (BCP) and disaster recovery (DR) planning policies and procedures ▶ Perform regular tests of BCP and DR plans to ensure the recovery and availability of the systems

EY's insights on the key areas to comply with the PIPA regulation

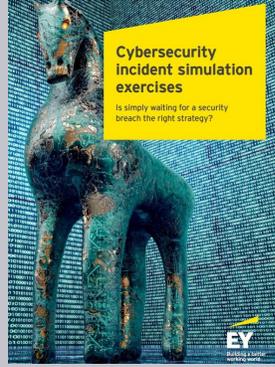
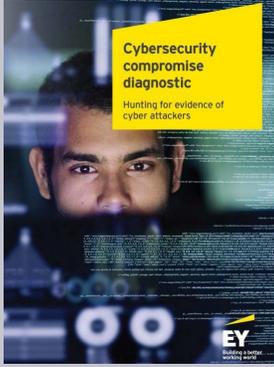
Impacted area	Key considerations	
	Data protection policy and data classification	<ul style="list-style-type: none"> ▶ Classify personally identifiable information (PII) ▶ Develop mechanisms to enforce policies and standards
	Privacy risk and controls	<ul style="list-style-type: none"> ▶ Integrate privacy controls in existing control framework and risk assessments ▶ Conduct risk assessments on processes and data flows
	Data life cycle management	<ul style="list-style-type: none"> ▶ Maintain data flows and privacy register ▶ Document conditions for processing (i.e., legal ground, data minimization, information provision, purpose limitation)
	Data subject rights	<ul style="list-style-type: none"> ▶ Set up procedures to support rights of data subjects, i.e., to access, modify and erase their PII; transfer PII to another organization (data portability); and object to the processing
	Privacy by design and architecture	<ul style="list-style-type: none"> ▶ Update security architecture to support privacy by design ▶ Conduct privacy impact assessment for new projects and systems
	Data security	<ul style="list-style-type: none"> ▶ Identify technical security measures to protect PII in line ▶ Consider data encryption (rest, use motion) ▶ Ensure identity access management with appropriate use in line with PIPA
	Data retention and disposal	<ul style="list-style-type: none"> ▶ Document data retention and disposal policy ▶ Identify retention periods for each category of PII
	Monitoring	<ul style="list-style-type: none"> ▶ Ensure that PII is used in line with policies, standards and PIPA ▶ Set up mechanisms to detect deviations, i.e., unauthorized disclosures
	Incident response and breach notification	<ul style="list-style-type: none"> ▶ Integrate personal data breaches within incident response ▶ Identify stakeholders to be notified after a data breach
	Vendor management	<ul style="list-style-type: none"> ▶ Gain visibility on vendors that process PII ▶ Set up mechanism to ensure vendors only process PII in line with policies, standards and PIPA (e.g., monitoring vendors and performing audits)

How we can help

Our portfolio of high-demand services is designed to address your cyber and privacy regulatory compliance requirements in a holistic and impactful way.

	Cyber	Privacy
Key compliance services	<ul style="list-style-type: none">▶ Cyber compliance gap analysis and road map exercise▶ Cyber maturity benchmarking and performance analysis▶ Compliance program readiness and remediation exercise▶ Board-level cybersecurity training and awareness sessions▶ Cyber strategy and road map support▶ Cyber risk management and board reporting▶ Policies, standards, processes and guidelines▶ Attack-and-penetration testing▶ Targeted cybersecurity audits▶ Secure business continuity management and disaster recovery assessment strategy, planning and testing▶ Crisis management program design and implementation▶ Supply chain security and third-party risk assessment	<ul style="list-style-type: none">▶ Privacy compliance gap analysis and road map exercise▶ Privacy maturity assessment and benchmarking▶ Privacy strategy, road map and architecture design▶ Personal data compliance assessment through data analytics▶ Assessment and remediation services related to regional, national, industry data protection and privacy regulations▶ Policies, procedures, notices and consent management▶ Privacy training and awareness sessions▶ Program risk assessment and remediation▶ Targeted privacy audits▶ Incident response planning and design▶ Data governance and ownership review▶ Data classification models and strategies▶ Data handling methods and approaches▶ Third-party privacy and data-sharing risk assessment
Supporting services	<ul style="list-style-type: none">▶ Cyber attestation▶ Compliance-as-a-service▶ Cyber operating model and organizational design▶ Cyber risk quantification▶ Physical security assessment▶ Product security assessment and program management▶ Insider threat assessment and remediation exercise	<ul style="list-style-type: none">▶ Program governance and business alignment▶ Personal data asset register creation▶ Privacy metrics and program reporting▶ Cloud strategy▶ PCI compliance services▶ Data governance strategy▶ Data management▶ Data discovery scanning

EY cybersecurity and privacy thought leadership



EY Global Information Security Survey 2020

Bridging the relationship gap to build a business-aligned security program

EY's Global Information Security Survey 2020 captures the responses of nearly 1,300 C-suite leaders and information security and IT executives. Most of the world's largest and most recognized global companies are represented, covering a variety of industries.



For more insights

Cyber

Privacy

Meet our team

EY is a global leader in cyber risk management, with deep experience in the Bermuda insurance market. This, combined with our market-leading services in cyber risk and our close relationship with regulators, positions EY as the service provider of choice to help you meet the requirements of the BMA's Insurance Cyber Risk Management Code of Practice 2019 and Personal Information Protection Act (PIPA), 2016.



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