

Cybersecurity considerations 2024

Technology innovations demand strategic pragmatism.

KPMG International

kpmg.com/cyberconsiderations



Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Align cybersecurity Make identity individual, with organizational not institutional

resilience

for 2024

Foreword

As 2024 unfolds, organizational leaders, from the CEO down, have much on their plates. They are contending with diverse challenges around achieving sustained growth, navigating the impact and risks of emerging technology, and attracting and retaining talent, to name just a few. For their part, Chief Information Security Officers (CISOs) are increasingly being viewed as proactive co-stewards of these ongoing business imperatives — not merely the cavalry leader riding in to save the day during a crisis.

In our annual *Cybersecurity considerations* report, a diverse cross-section of global KPMG cybersecurity specialists explores eight considerations that CISOs and their teams are encouraged to prioritize in the coming year to support the organization's business growth objectives by mitigating the impact of specific cyber incidents and reducing overall cyber risk exposure.

Organizations worldwide face many cybersecurity challenges requiring the implementation of controls to build and embed resilience, meet regulatory mandates, and reduce overall risk. However, the rapid emergence of artificial intelligence (AI) as a strategic tool for both legitimate and nefarious purposes is rapidly moving up the list. The democratization of AI — these advanced technology solutions and models are now largely accessible to anyone with a credit card via the cloud — has at once revealed new paths to value creation and exposed significant potential risks. Al is proving to be a true organizational game-changer, including for security teams.

This evolving threat landscape requires organizations and their CISOs to view security through a new, more pragmatic lens. More than ever before, they must balance data security and privacy with the broader objectives of the business.

From a cybersecurity perspective, the impacts of societal, economic, political, and regulatory developments are more consistently felt globally today. The simple reason is the world is more connected. The most acute effect of the connected business ecosystem continues to be within global supply chains for all practical purposes, there are virtually no regions of the world that are isolated anymore.

However, there remain local nuances. For example, there are regulatory requirements to which businesses must adhere that remain uniquely regional, such as certain markets being more sensitive to the protection of personal data and new rules around responsible AI, critical infrastructure and supply chains.

There's a global focus within the cybersecurity universe on compliance in general, with a refined eye toward the overall burden of regulation, as well as the diversity of various reporting requirements. As a result, companies are putting more emphasis on embedding privacy and security within the way they comply with a broad range of trans-border regulatory requirements and regimes.

This is of particular interest when it comes to building and governing responsible Al systems, ensuring customer privacy, and enacting guidelines around critical infrastructure, supply chains, smart products, and resilience.

КРМG

Embed cybersecurity Navig and privacy, for good global

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security Make iden not ins

Make identity individual, not institutional Align cybersecurity with organizational resilience Cyber strateg for 2024

At the same time, cybersecurity budgets may have to be more objectively justified moving forward as organizations deal with economic uncertainty. Many CISOs are seeing flat budgets, not necessarily reduced, as some of that spend is diverted to organizational innovation, particularly AI and automation solutions. This noteworthy development requires security teams to engage in technology rationalization and budget optimization — essentially, doing more with less.

While economic headwinds drive budget pressures, there is a growing view that cybersecurity has matured to the point that organizations can trim investment. Further, security functionality is now embedded within other IT and transformation budgets rather than being a central budget provision. Also, the shift to a cloud-based security-as-a-service approach embeds security costs into companies' broader operating expenses in a way we haven't seen previously.

In this environment, I encourage CISOs to sharpen their cyber risk quantification (CRQ) process, which helps express the impact of cybersecurity risk in financial terms using mathematical modeling to illustrate risk through measurable variables.¹ Looking at risk through a CRQ lens can effectively demonstrate return on investment and investment priorities to leadership and the Board, ensuring the organization understands the threat from both technology and financial perspectives. Fundamentally, this report explores from various angles what is perhaps the central aspiration for executives across the enterprise: keeping their organizations resilient. Bottom line, if a data leak or network breach occurs, how quickly can the organization resume regular operations, and how can the impact on customers be minimized?

This is emblematic of the resilience agenda that can be seen within many of the most recently proposed regulations, particularly those focusing on critical infrastructure sectors. In many cases, the emphasis is now on response and recovery, as well as mitigating harm to customers. This is a different lens through which to view security relative to the traditional perspective.

Cybersecurity must be viewed as an ever-evolving ongoing endeavor. The more organizations accept cyber incidents as inevitable yet manageable, the better their chances of achieving that balance between preparation and resilience.



Akhilesh Tuteja Global Cyber Security Leader KPMG International

¹ Forrester, *The Cyber Risk Quantification Landscape, Q4 2022*, November 29, 2022.



Eight key cybersecurity considerations for 2024

Click on each consideration to learn more.



Meet customer expectations, improve trust

With cyber threats and data privacy concerns growing, CISOs should be seeking to work closely with stakeholders across the organization to maintain trust by ensuring operations are resilient in the event of an incident.

Navigate blurring global boundaries

A central consideration that organizations should examine how to most effectively navigate the increasingly complex global business landscape to ensure resilience and business continuity.

Unlock the potential of AI - carefully

Security and privacy leaders should be supporting the business objectives reliant on AI and determine how to harness this game-changing technology effectively and responsibly.

Make identity individual, not institutional

Driven by expanding business models, it's vital that organizations now view identity not in isolation but from a broad perspective.



Embed cybersecurity and privacy, for good

The act of embedding security across the organization should be viewed as an exercise in driving operational excellence.



Modernize supply chain security

Despite the challenges and competing priorities, ensuring the supplier and partner ecosystem is secure should not be a bottleneck; it should be a business enabler.





Supercharge security with automation

As operating models digitize, security teams should automate and upgrade their processes to keep pace.

Align cybersecurity with organizational resilience

Organizations should find a way to create a broad-ranging culture of resilient security throughout the enterprise and seek to ensure all stakeholders are on the same page.





Embed cybersecurity N and privacy, for good gl

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully Supercharge security with automation Make identity individual, not institutional Align cybersecurity with organizational resilience Cyber strategies for 2024

Consideration1

Meet customer expectations, improve trust

Consumers, employees, suppliers — every corporate stakeholder — expect businesses to pursue growth and profits. But increasingly, companies are expected to operate in a socially responsible manner, as well. Organizations should strengthen the connection between security and privacy and environmental, social, and governance (ESG) factors. This bond is being increasingly recognized across the business ecosystem, particularly by ESG rating services as they search for greater transparency in measuring and comparing organizations.

- 66 77

Increasing trust should be high on the cyber agenda in relation to how video and audio files are used in the creation of deepfakes, the impact of which can be grave for privacy and perhaps even democracy.

Mika Laaksonen Partner Global Cyber Security ESG Leader KPMG in Finland



Embed cybersecurity and privacy, for good

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security with automation

Align cybersecurity Make identity individual, with organizational not institutional

Cyber strategies for 2024

The importance of ESG and how security and privacy fit into the bigger picture

According to the KPMG 2023 CEO Outlook, 69 percent of CEOs have embedded ESG into their business as a means of creating value, and 50 percent anticipate significant returns from those efforts over the next three to five years.

While environmental aspects of the ESG agenda have garnered the most attention, governance elements such as cybersecurity and privacy are less well-developed. With cyber threats and data privacy concerns growing, CISOs need to work closely with their ESG counterparts to ensure that, in the event of an incident, operations are resilient and continuity plans are ready for activation.

By embedding cyber and privacy considerations into social responsibility programs and protecting customer data, organizations can increase the chances of maintaining their reputations and trust among customers, even in the event of a major breach.

For consumers who share personal information with public and private service providers, there is an expectation that their data will be protected and that it will not be used for purposes other than what they've supplied it for.

At the same time, there's an expectation that, in the pursuit of their business objectives, organizations will act in a socially responsible manner to reduce their carbon footprint, support their local communities,

improve labor policies, and ensure workplace diversity and equality, to name just a few items.

Addressing cybersecurity and privacy specifically and ESG broadly have become top corporate and. by extension, CISO, priorities. There are different regulations for specific regions and industries, and those auidelines need to engender trust. This is important from a compliance perspective but also noteworthy because B2B customers and B2C consumers have discrete expectations directly impacted by the various rules.

Individual consumers can purchase alternative products or services if they're not happy with the provider's actions regarding their personal data, privacy and response to breaches. In fact, 82 percent prefer a brand's values to align with their own, and 75 percent said they would abandon a brand over a conflict in values.² Given a choice, most consumers prefer companies that prioritize security, privacy, and sustainability by adhering to ESG standards.

This is especially true on the B2B side, where corporate customers value safeguarding their confidential data and intellectual property. More and more industries have regulatory requirements for cybersecurity and data privacy, and organizations that comply with these regulations are preferred by stakeholders.³ For many organizations operating in B2B industries, this is more than a "nice to have," with regulatory obligations flowing directly from firms in regulated industries to their suppliers, who could be tarnished by association if the brand experiences a significant cyber event.

Indeed, roughly two-thirds of consumers will pay more for sustainable products, although two-thirds of retail executives are skeptical that they actually will pay more.⁴ However, while consumers may be okay with paying extra for security, privacy and social responsibility, these factors are, for the moment, "table stakes," the cost of doing business, although they are likely to hit the bottom line sooner rather than later.

resilience

In cases involving private equity or venture capital, the ethical lens through which these firms view their investments is worth noting. Many now look for assurances of the appropriate level of cybersecurity and privacy management. Ultimately, they're concerned about the brand damage cyber events can bring to the organizations where they infuse funds.

""

Increasingly, there's a big role for cyber to play regarding AI and data ethics. Determining that the data used to train AI algorithms is accurate, hasn't been corrupted, and is free from bias is a herculean and. perhaps ultimately, impossible task, but well worth the effort.

Caroline Rivett

Partner Global Cyber Security Life Sciences Leader KPMG in the UK



² Google Cloud, "New research shows consumers more interested in brands' values than ever," April 27, 2022.

³ KPMG, Cybersecurity in ESG, 2023.

⁴ First Insight/Wharton School of the University of Pennsylvania. "The Sustainability Disconnect Between Consumers and Retail Executives." January 2022.

Embed cybersecurity Nar and privacy, for good glol

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security with automation Make identity individual, not institutional Align cybersecurity with organizational resilience

Cyber strategies for 2024

The social benefits of actively embedding cybersecurity into the ESG agenda

The scope of the ESG dialogue needs to be broadened at many organizations, it's not yet common to be talking about cybersecurity and privacy in the context of ESG.

In today's environment, there are deep issues with the social contract between organizations, employees and consumers relating to data protection. Increasing trust should be high on the cyber agenda when it comes to how video and audio files are used in the creation of deepfakes — imagery, video, or audio featuring a specific individual that is replaced with another person's face or voice or manipulated to give the impression the individual did or said something they did not.

Deepfakes are difficult to combat since, in many instances, it's up to the audience to interpret whether the video or audio is real or fraudulent. Organizations must be vigilant about identifying and removing these files and should participate in educating the broader public on the subject. Increasingly, there's a big role for cyber to play regarding AI and data ethics. Determining that the data used to train AI algorithms is accurate, hasn't been corrupted, and is free from bias is a herculean and, perhaps ultimately, impossible task, but well worth the effort.

Privacy and cybersecurity also play vital roles in protecting freedom of speech and securing today's

proliferating digital communications channels. Privacy controls can also play a key role in limiting the exploitation and misuse of personal information without consent or knowledge. This is vital in maintaining the public trust in organizations.

Many decarbonization and CO₂ reduction programs rely on digital technologies and automated systems to monitor and manage energy production, distribution, and consumption. As efficient as these tools can be, they can also create unforeseen cybersecurity vulnerabilities and require a high level of data protection. Strategically embedding cyber can help mitigate threats, reduce the risk of data breaches and ensure regulatory compliance.

Finally, there's a substantial social responsibility dimension to both cybersecurity and privacy where organizations should work with B2C and B2B customers to help them be more cyber aware. Banks do it routinely, and retailers are doing it more and more. There's also a connection to supply chain and ecosystem security, where improving the security of the vendor ecosystem is critical.

Do people really care whether a business has a cyber incident if it's managed?

Theoretically, most people would probably say that they don't want a company whose products or services they use to suffer a data breach. But those same people don't want to pay more and want touchpoints to be quick and frictionless. People largely don't care until something bad materializes, and it seems as though they want the work of security to happen "behind the curtain."

A big part of the equation is demonstrating to customers that cybersecurity is an organizational imperative — it simply is the right thing to do. Organizations should approach this as though they are training their customers and clients to understand and care about the implications of cyber awareness and prove that what they're doing isn't just another to-do item but a vital service.

Training people outside your organization is itself an exercise in ESG maintenance. Cybersecurity Awareness Month is an example of how government and businesses work together to ensure that employees and consumers appreciate the basics of cybersecurity to avoid the most obvious risks.

There is no such thing as 100 percent security. Despite all the precautions, incidents do happen. In the event of a cyber incident, make a quick decision about whether you need to disclose what happened and, if so, how much information you're prepared — or compelled — to share.⁵ It's vital to be open and honest; good communication can lead customers to trust an organization even more than they may have before the incident.



⁵ KPMG International, "Maintaining cyber vigilance and staying resilient," 2023.

Embed cybersecurity and privacy, for good

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully Cyber strategies for 2024

Align cybersecurity

with organizational

resilience

Suggested actions

 \bigcirc

Connect with your organization's ESG team to determine whether they consider cyber a key aspect of their mandate. If not, work to build awareness of how and why it's important to all three areas of ESG.

- () -

Be practical. Effective cybersecurity is not as much about getting business partners to do things differently as it's about reframing the conversation across the enterprise to inspire other areas of the organization to infuse security into what they already do.

Sharpen your global regulatory intelligence around cyber in general and ESG and privacy in particular to ensure timely compliance and reporting; keep track of and remain familiar with ever-increasing regulations and their effects on your cyber efforts.

Learn more



Embed cybersecurity I and privacy, for good

Navigate blurring global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security M with automation

Make identity individual, not institutional Cyber strategies for 2024

Consideration 2

Embed cybersecurity and privacy, for good

Security, from the CISO down through their entire team, is a very different role today. Cyber is becoming more embedded in core business processes. That reality is being reflected in a move away from a centralization of cybersecurity in the CISO role to a federated model, in which the CISO is the conductor of the orchestra, establishing the frameworks, assessing risk, and providing implementation support. Security is integral to every function across the organization, from front office to back, and many leaders now acknowledge the value of integrating a security mindset into their very different business cultures and processes.





Embed cybersecurity N and privacy, for good glo

Navigate blurring Mo global boundaries ch

Modernize supply chain security Unlock the potential of AI — carefully

ial Supercharge security with automation

Make identity individual, not institutional Align cybersecurity with organizational resilience Cyber strategies for 2024

Business models and technology are changing and impacting security

Whether you make a widget, deliver a service, or create information, operating models are increasingly cloudbased, which, in concert with other new technologies, is being used to increase scalability, reduce costs, generate revenue, and widen profit margins.

The automotive industry is a good example of transforming business models. Cars today have become huge tablets on wheels. People are ordering pizza from the road and not even using the phone. So much technology has been added to gas-powered cars, not to mention electric vehicles, that they have become arguably the most sophisticated product available to retail consumers.

The downside of technology is it widens the attack surface, creating new potential vulnerabilities and increasing the complexity of the ecosystem with which CISOs must contend. At the same time, the cost of cybersecurity is skyrocketing, leading organizations to consider better strategies for delivering those services.

In this new world, organizations can't deploy hundreds of people; security teams must be lean — particularly those embedded within business lines. Organizations must find the right combination of people and technology, using AI in general and machine learning in particular to cover the ground humans can't cover efficiently.

Performing timely solution reviews on thousands of applications is simply impossible for humans. Organizations must decide where to start incorporating security within application development processes and move to continuous monitoring to understand the impact of potential attacks and vulnerabilities. The irony is it doesn't take the CISO to do that. Managing these risks requires a cultural shift across the business to embrace security as part of the organization's standard operating procedures. CISOs don't install patches, and they don't manage operations. Security teams should determine how and where to embed certain security tasks in the business and monitor those tasks to ensure they are carried out properly. This is how we see security teams evolving.

It's going to be a matter of "insourcing" to nudge security closer to the customer or outsourcing to a thirdparty service provider to efficiently leverage specialized skills that may not exist within the organization. Many organizations struggle with the idea of security as a core competency, particularly as they attempt to master the sheer volume of new technologies.

Work with business leaders to embed security effectively

There's a lot of talk about "shifting left," but while we acknowledge the importance of considering security early, we also believe organizations must look end-toend — from concept to build and including continuous monitoring — and approach security as an ongoing requirement. Throughout that journey, the number one element of security is visibility.

Security professionals are becoming more like air traffic controllers, and the runways must be kept clear. CISOs must make sure "traffic" — that is, applications — are coming in and going out efficiently and safely. Security shouldn't hold up the release of products and services, but there should be early visibility into the processes the business is employing.

Embedding security into broader business should be viewed as an exercise in driving operational excellence. Security teams should describe and demonstrate what "good" looks like and inspire embedded security professionals across the enterprise to manage toward that vision. It's a matter of establishing appropriate guardrails to enable a secure-by-design approach to be embedded, and then integrating the right tooling and templates into development environments.

CISOs and their teams — as well as security personnel who are embedded in the business — should take a holistic approach to operational excellence and shared responsibility. This means giving equal consideration to people, process, technology, and regulatory requirements. By focusing on risk management, incident

---- 66 77 -

Ten or 15 years ago, the 80/20 rule for security professionals was 80 percent technical skills and 20 percent soft skills. If CISOs want to ensure they are not perceived as support staff, they must get comfortable with the new 80/20 rule under which imperatives such as communication, building trust, problem-solving and conflict management are as vital as ensuring an efficient security operations center.

Brian Geffert

Principal Cyber Security Services KPMG in the US



Embed cybersecurity Navigate blurring global boundaries

ng Modernize supply ies chain security Unlock the potential of AI — carefully

otential Supercharge security refully with automation Make identity individual, not institutional

ndividual, Align cybersecurity vith organizational resilience Cyber strategies for 2024

management, governance and compliance, technology solutions, and employee training and awareness, organizations can develop a sustainable security culture.

This is particularly pertinent as organizations prepare for the SEC's new cybersecurity rules⁶ and the EU's NIS2 Directive, which requires member states to implement laws to protect essential businesses from cyber threats by October 2024.⁷

What CISOs need to do to remain relevant

Most CISOs grasp the security implications around data, applications and the overall attack surface, but they can truly differentiate themselves in connection with talent, budgets and cross-organizational politics. CISOs who understand how to work across the organization to embed security into the business while maintaining a partner role are seeing the most success. Security teams must have insight into the initiatives business units are planning and the potential new threat vectors that can be revealed.

CISOs should work to speak the language of their business partners rather than esoteric cyber speak. For example, don't talk about zero-day vulnerabilities, advanced persistent threats or security orchestration, automation and response (SOAR) strategies. Those terms mean nothing to most non-security colleagues. Instead, say, "If this plan doesn't work, you will get cut off from this or that market. If we can't successfully protect the product line, you can't generate sufficient revenue because people won't be using the products."

Security teams don't need to employ scare tactics. Rather, they need to adopt a new point of view based on business enablement and risk reduction. CISOs have to inspire people to trust that their guidance and strategic vision are in the organization's best interest. Their commodity is trust.

New essential skills and competencies

Security professionals must improve their soft skills, including interpersonal skills such as negotiations, time management, listening, and networking. Ten or 15 years ago, the 80/20 rule for security professionals was 80 percent technical skills and 20 percent soft skills.

Today, that equation has flipped. If CISOs can't work with executive leadership to tell a story that the organization can understand and coherently position ideas to influence action across the business, they're simply not going to be successful. In addition to these softer skills, security leaders should consider leveraging cyber risk quantification methodologies to more effectively manage overall risk exposure. This will enable better communication and articulation of the financial risks, as well as where the organization should prioritize its cybersecurity investment.

The security team must acknowledge that they are communicating mainly with non-technical colleagues to get them to understand risk and act accordingly. If CISOs want to ensure they are not perceived merely as support staff, they must get comfortable with the revised 80/20 rule under which imperatives such as communication, building trust, problem-solving and conflict management are as vital as ensuring an efficient security operations center.



⁶ Securities and Exchange Commission (SEC), "SEC Adopts rules on Cybersecurity Risk Management, Strategy, Governance, and Incident Disclosure by Public Companies," July 26, 2023.



⁷ European Parliament, "The NIS2 Directive: A high common level of cybersecurity in the EU," August 2, 2023.

Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Align cybersecurity Make identity individual, with organizational not institutional resilience

Cyber strategies for 2024

Suggested actions

(LL)

 $\stackrel{\circ}{\sim}$

Bring a new perspective to the board on what could disrupt the business and what should be done to manage those risks without impacting operations and customer experience.

ÓÓÓ

Security teams should determine how and where to embed certain security tasks within the business vs. outsourced to a third-party service provider and monitor those tasks to ensure they are carried out properly.

_	
\square	
L	
<u>ب</u>	

Run the cyber team like a business, which means you must give up a degree of control over what other parts of the organization are doing from a security perspective

Learn more



Embed cyber and privacy, for good global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

potential Supercharge security arefully with automation Make identity individual, not institutional

dividual, Align cybersecurity with organizational Cyber strategies for 2024

Consideration 3

Navigate blurring global boundaries

Global businesses are operating within an increasingly complex cyber and privacy regulatory space. National interests are playing out, leading to diverse regulatory requirements over information sovereignty, supply chain security, transparency of cyber controls compliance, incident reporting, and, of course, privacy. Businesses need to calibrate their regulatory reporting for an increasingly borderless world but also maintain security controls that can be tailored to local requirements. Organizations need to be prepared to respond quickly to changing geopolitics and diverse sanctions requirements.

- 66 77

The big question for security professionals is around striking the right balance between business enablement and business value while ensuring they are staying on the right side of the regulators.

Orson Lucas Principal Cyber Security Services KPMG in the US



Embed cybersecurity Navigate blurring and privacy, for good global boundaries

s Modernize supply chain security

Unlock the potential of AI — carefully

otential Supercharge security with automation

Make identity individual, not institutional

ridual, al Align cybersecurity with organizational resilience Cyber strategies for 2024

Global business landscape: Common cyber and privacy goals, but divergent in practice

For years, the global regulatory landscape has been very disjointed. While some markets prioritized aggressive regulations over the past few years, many did not. As a result, organizations were left with a decision to implement elevated governance, processes and controls responsively on a market-by-market basis or to treat emerging regulations as a bellwether for things to come and invest in proactive, mature, and automated privacy and security programs. While some opted for the latter, budget, resources and other competing business priorities caused many organizations to opt for the former.

However, that's a slowly evolving scenario. Markets like Europe, China and the US are setting the tone, and many others are following suit. Patterns and principles are emerging in the security, privacy and AI domains. This provides an opportunity for leading organizations to coalesce, locally and globally around a principlesbased approach to proactively protect and manage sensitive information. Ideally, this will manifest in single global privacy and security programs that account for nuances in regulation and local practices in specific markets. Still, there are several challenges that truly global organizations will need to navigate to make that vision a reality.

For example, data localization and transfer considerations require a solid understanding of data inventory and flows/transfers, both internally and with third-party business and supply chain partners. Often, there are multiple paths, though all require significant planning and intentionality to help ensure efficient, cost-effective, and compliant practices.

Considered through a business lens, organizations will continue to require a global audience and global footprint to scale their operations, regardless of jurisdiction and where they're based. The big question for security professionals involves striking the right balance between business enablement and business value while ensuring they stay on the right side of the regulators. It's a fine line and a clear challenge for CISOs, CPOs, and their teams.

Global businesses face challenges adhering to evolving regulatory requirements

Organizations should navigate the regulatory waters carefully, knowing that the rules are perpetually evolving. As customer relationship management and marketing technology (MarTech) tools mature, organizations are realizing the value of data through the insights and ROI it provides to the business.

Regulators have responded with targeted privacy rules in many jurisdictions globally, requiring CISOs, CMOs, CDOs, and CPOs to ensure they have a sound second line of defense to navigate and comply with current and planned regulatory requirements. In terms of consequences, many countries and territories now impose strict financial penalties as well as suspensions of business licenses — for privacy infractions.

The siloing of privacy is dissipating quickly. As the focus of regulators evolves, areas such as the purchase and sale of data, consent and preference management, data ethics, and responsible use of AI are flattening the siloes between stakeholders and business functions and causing boards and executive leadership to take an objectives-based view centered on both regulatory compliance and consumer trust. The latter is something that leading organizations are using to differentiate themselves as they seek to build, sustain, and transform relationships with consumers.

In today's world, as cybercrime objectives and tactics have grown more nefarious and sophisticated, customers, companies, and regulators alike should follow a much more holistic approach to data management and information protection.

Henry Shek

Partner Cyber Security Services KPMG China

"



Embed cybersecurity Navigate blurring and privacy, for good global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

otential Supercharge security with automation Make identity individual, not institutional Align cybersecurity with organizational Cyber strategies for 2024

Shifting geopolitical dynamics influencing response speed and adaptability

Doing business in multiple regions is challenging in the current environment because the tools and technologies organizations use in one market may not be accessible in others. For example, in parts of China, some companies may not have access to certain key tools because availability may be restricted due to vendor decisions to deliver in the Chinese market. This is both a supply chain and operational resilience issue and can severely impact organizational productivity.

A central consideration that organizations must examine is how to most effectively navigate the increasingly complex global business landscape to ensure resilience and business continuity. Attempting to navigate privacy and data challenges requires a well-defined governance plan that reaches a minimum maturity level quickly when the organization operates in jurisdictions with strict sanctions regimes.

Indeed, Chinese regulations take a different approach to those in the EU, which are different than those in other parts of the world. They have different scopes, definitions of personal data, collection limitations, accountability rules and basic legal frameworks. Without a strong principles-based vision, strategy, governance and tactical plan, organizations will increasingly be challenged to innovate or risk falling behind.

The politicization of business and its impact on security is another dynamic to bear in mind. In the US, for example, some companies skew one way or the other politically, sometimes based on the internal values of their leadership but often in response to their target customer base. This development came to a well-publicized head with the conflict in Ukraine as



companies that continued to operate in or do business with Russia had sanctions applied against them.

From a security and IT perspective, the concept of segmentation or micro-segmentation — whereby companies can manage workloads in a data center or cloud environment with granular policy controls and restrict the spread of lateral threats — is instructive. Organizations with holistic networks can create these connected segments yet separated by firewalls. We're finding that companies with segmentation models in place are better able to effectively cut off regional operations quickly as needed.

Global companies should look at national jurisdiction through different lenses. For example, offering services to EU citizens outside Europe activates GDPR requirements. In general, firms need to be clear about where their operations are located, who they depend on to conduct business (i.e., suppliers), the markets



Embed cybersecurity Navigate blurring and privacy, for good global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security with automation

Make identity individual, not institutional

Align cybersecurity with organizational resilience

Cyber strategies for 2024

where they offer products and services, and where they are incorporated as a legal entity. The interplay between these four sovereignty concepts gives rise to a complex regulatory picture most effectively navigated by a flexible, policy-based operational approach.

Another consideration is redundancy. For example, suppose a company maintains its entire call center operation in a jurisdiction that becomes restricted for one reason or another, and all business in that country needs to be shut down. What becomes of the customer service apparatus? Having some level of business, security and redundancy in place if the organization

needs to temporarily step away from business in a certain part of the world to navigate the prevailing geopolitical challenges can help alleviate the risk of constraining the broader business in the process.

In the end, CISOs and their teams should always apply a lens of resilience and preparedness. This helps companies remain a step ahead of the next black-swan event and solidify the ability to make those "break-glass" decisions guickly and confidently, rather than being forced to hastily cobble together a strategic hyper-localization cyber strategy.

Learn more

Suggested actions Maintain an understanding of Know where critical Enhance transparency to build data — both structured and the global regulatory landscape, trust across global supply chains; specifically an understanding of unstructured — resides rather than treating third-, fourth-, the relevant rules at a granular, and even fifth-party supplier across the organization, as jurisdictional level. well as where it's shared relationships solely as transactional with third-party partners. and contractual (which they are), approach them as an extension of your ecosystem.

Embed cybersecurity Navigate blurring and privacy, for good global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

""

Supercharge security with automation Make identity individual, not institutional

idual, Align cybersecurity with organizational resilience Cyber strategies for 2024

Consideration 4

Modernize supply chain security

Many organizations' current approach to third-party and supply chain security does not align with the reality of today's complex and interdependent ecosystem of partner organizations. Traditional models were built around the assumption that third parties provide services on a transactional basis. That view does not reflect today's intricate network of APIs and processes tethered by a complex set of software-as-a-service dependencies. Organizations are encouraged to establish more strategic supplier partnerships focused on continuously monitoring and managing the evolving risk profiles of these suppliers to strengthen operational resilience. **Despite the challenges and** competing priorities, ensuring the third-party ecosystem is secure should not be a bottleneck: it should be a business enabler. But there can be no shortcuts. This elevates the pressing need for modernization. How can you do it faster, more efficiently, and with minimal resources without compromising quality? That's where a risk-based mindset, paired with a datadriven approach powered by intelligent automation, can make a tangible difference.

Mitushi Pitti Managing Director Cyber Security Services KPMG in the US



Embed cybersecurity and privacy, for good global boundaries

Modernize supply chain security Unlock the potential of AI — carefully Supercharge security Make identity individual, with automation not institutional

individual, tional Align cybersecurity with organizational resilience Cyber strateg for 2024

The evolving supply chain landscape is affecting traditional security models

Historically, the third-party security model has focused on point-in-time assessments. Continuously monitoring and taking inventory of frequently used supplier software components can help CISOs better understand the security structure of these providers and identify potential risks. With this dynamic in mind, CISOs should develop a more modern standard for "containerizing" risk exposure in real-time.

To achieve that posture, we see three key challenges for CISOs and their teams:



Visibility

A longstanding problem has been organizations' inability to cover the entire vendor population. Large organizations can have thousands of suppliers, and often they cannot accurately assess their activities with traditional methods. It would require an army of security personnel to do all the physical endpoint assessments, which is humanly impossible. It would cost tens of millions of dollars, making it unrealistic logistically as well as budget-wise.



Scalability

Beyond understanding the risk profile of the broad vendor population, the ability to scale enables organizations to keep pace with the challenges of a constantly expanding and changing landscape. From new technologies and processes to the possibility that a vendor doesn't explicitly follow your security protocols, the third-party environment is an ever-fluid threat vector.



The evolving risk profile of third-party partners

The old transactional model did not have a mechanism for tracking how the relationship is changing and how that might be creating new vulnerabilities. As a result, depending on the maturity of the vendor, organizations need to do more (institute monthly reviews) or perhaps less (allow more autonomy with quarterly reviews) to ensure these relationships operate efficiently and adhere to all compliance requirements.



Embed cybersecurity Navigate blurring and privacy, for good global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security with automation

Make identity individual, not institutional

al, Align cybersecurity with organizational resilience Cyber strategie for 2024

With the rapid pace of technological change and the reality that customers are more demanding, organizations are looking to remain innovative. And, of course, third- and fourth-party suppliers — and cybercriminals — are doing the same.

For example, many vendors are deploying AI to improve processes and complete tasks faster. But fascinating and powerful as it is, AI poses a variety of potential new risks, from questions around data integrity, statistical validity, and model accuracy to transparency and reliability issues. This human-thought simulation by machines must be used securely and responsibly at the organizational level and by third-party partners. Extrapolate those risks across the supply chain, and it reveals a new threat landscape for CISOs and their teams to monitor.

Despite the challenges and competing priorities, ensuring the supply chain ecosystem is secure should not be a bottleneck; it should be a business enabler. But there can be no shortcuts. This elevates the pressing need for modernization. How can you do it faster, more efficiently, and with minimal resources without compromising quality? That is where a risk-based mindset, paired with a data-driven approach powered by intelligent automation, can make a tangible difference.

The role of government

Heavily regulated organizations that must keep pace with the regulatory environment and work with suppliers that don't have the same regulatory constraints must find a way to get them to cooperate and employ the right security controls. That's an ongoing battle that organizations are facing. They're looking to see where regulations will help in compelling third parties to be more secure overall. The recent US Securities and Exchange Commission (SEC) rules around cybersecurity have a position on third parties. The regulators know that this is a topof-mind concern and a growing challenge for all organizations. A little bit of a nudge from the regulators should help convince those less-than-mature vendors to participate in the program a little better and help prop up the cyber posture.

Similarly, the EU's revised Network and Information Security Directive (NIS-2) emphasizes that organizations should proactively manage risks introduced by third parties. Also, the Digital Operational Resilience Act (DORA), which facilitates effective monitoring of the risks posed by third-party information and communication technology providers, focuses on getting a better handle on supply chain security.

Regulators, through DORA, are looking to determine which third parties they view as critical to the overall resilience of the broad supplier ecosystem. These players may not be regulated directly, but since they are considered systemically important, the regulated entities will also pass their requirements onto them.

Collaborative intelligence sharing: A nascent but worthy strategy

As a practical matter, information sharing between corporations and suppliers may be years away, but conceivably, it can solidify best practices and ultimately enhance supply chain relationships.

With the threat posed by bad actors growing exponentially, organizations across various industries, particularly critical infrastructure, must do significantly more sharing of threat and risk intelligence — internally, with the market, and with suppliers and partners.

- 66 77

Al poses a variety of potential risks, from questions around data integrity, statistical validity, and model accuracy to transparency and reliability issues. This humanthought simulation by machines must be used securely and responsibly at the organizational level and by third-party partners. Extrapolate those risks across the supply chain, and it reveals a new threat landscape for CISOs and their teams to monitor.

Elizabeth Huthman Director Cyber Security Services KPMG in the UK





Embed cybersecurity Navigate blurring and privacy, for good global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security with automation

Align cybersecurity Make identity individual, with organizational not institutional

Cyber strategies for 2024

resilience

Organizations should seek to break down the silo procurement, legal, business units, risk, third parties ---to communicate and collaborate.

Collaboration and information sharing also help organizations manage vendor concentration risk. This is a major consideration for extended supply chains third, fourth, and fifth parties - where multiple organizations rely on the same suppliers. In these instances, it makes sense to join forces while maintaining confidentiality across certain aspects of the competitive landscape to ensure third parties are not a weak link across the ecosystem.

Many organizations are reticent to engage in this form of collaboration. With that reality in mind, the European Union Agency for Cybersecurity (ENISA), via Information Sharing and Analysis Centers (ISACs), and the Cybersecurity and Infrastructure Security Agency

(CISA) in the US, are spearheading a variety of centralized programs aimed at gathering and rapidly disseminating information regarding threats and vulnerabilities.

It's not just about whether a vendor can access customer- or business-sensitive data. Suppose a specific supplier is critical to maintaining operational resilience meaning it impacts the organization's ability to assemble and distribute products — but is inadequately mature from a security perspective. In that case, steps must be taken to ramp up the vendor's security sophistication or a tough decision to move on to an alternate partner may be necessary.

By establishing a corporate culture grounded in risk awareness and security, no individual or process will be viewed as a weak link or business speed bump. And that mindset will emanate across all aspects of the enterprise — including third-party affiliates.

Learn more

Suggested actions



Take a risk-based approach to assessing third-party processes rather than a blanket approach to different suppliers that provide diverse services.



Leverage intelligent automation to gain higher visibility into the changing supplier risk profiles and build a sustainable and scalable forward-looking thirdparty program.



Encourage crowdsourcing of intelligence and sharing both within your organization and with trusted third parties.



Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully Supercharge security Make ide with automation not

Make identity individual, not institutional Cyber strategies for 2024

Consideration 5

Unlock the potential of AI — Carefully

With careful planning and execution, AI will transform how, when, and by whom work gets done. All the talk is currently about generative AI, but many other branches of AI, from robotics to machine learning, continue to transform business. Calibrating the security, privacy, and ethical implications inherent in these technologies is challenging, and organizations are looking to establish frameworks that provide both risk management and governance when implementing AI.

- 66 77

Data is the critical linchpin for security in general and privacy in particular. The industry needs government bodies worldwide to harmonize because having disparate legislation under which some countries are stricter than others disincentivizes innovation. The market needs to balance that need for innovation with effective regulatory guidance and guardrails.

Sylvia Klasovec Kingsmill Global Privacy Solutions Lead KPMG International and Partner KPMG in Canada



Embed cybersecurity Naviga and privacy, for good global b

Navigate blurring global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security with automation Make identity individual, not institutional

y individual, tutional Align cybersecurity with organizational resilience Cyber strategies for 2024

Al's current path: Limited guardrails, but opportunities abound

The concern over business outcomes and the need to foster trust among employees and customers, specifically, and society, in general, has sparked a broad ethical debate around how AI can be controlled and deployed responsibly, transparently, and with integrity. To that end, regulation in this space is ramping up. The public and private sectors must work together to offer practical solutions for support during innovation and development to ensure security and privacy are embedded from the outset.

There is some trepidation in the market to innovate because of the cautionary headlines, the lack of regulatory guardrails, and the absence of a universal standardized global approach to Al. But that unease is being met with an equal measure of passion for Al's potential to spur innovation.

Even local approaches to how AI models and algorithms should be managed, deployed, and legislated are murky. Some countries and regions are further ahead than others. Organizations should maintain awareness of the key foundational elements needed to establish and maintain trust while also being mindful of the direction regulations are moving in. This will go a long way toward minimizing the work needed to ensure compliance with these regimes in the future.

While we encourage organizations to move forward with the exciting and vital work they're doing with AI, at the same time, they should ensure they have a thorough understanding of the complexities involved and how to de-risk their models effectively. As the market develops, it's important to allow global regulators and legislators the time to establish meaningful guidelines for AI development. The EU AI Act is a leading example. This landmark legislation is poised to do for AI what the EU's General Data Protection Regulation (GDPR) has done for privacy, paving the way for exciting and responsible advancements in this field.

Although the absence of legislation is a clear speed bump, the good news is existing privacy legislation has similar principles that can and should be applied to new Al algorithms. Privacy factors such as notice, consent, explainability, transparency, and risk of harm are all codified in existing law.

To remain competitive in the market, CISOs should partner with Chief Data Officers and Data Protection Officers to support the business objectives that are reliant on AI and determine how to harness this gamechanging technology effectively and responsibly. At the same time, they need to wrap sufficient governance and controls around processes that may have operated largely without oversight for some time. This harmony between enablement and governance is where successful adoption lies.

Primary challenges in balancing Al innovation with security and privacy concerns

To facilitate their adoption of AI, organizations must make crucial choices that will shape their approach, such as determining whether to create in-house models

" " "

CISOs and other senior leaders and their teams need to support the business objectives that are reliant on AI and determine how to harness this game-changing technology effectively and responsibly. At the same time, they need to wrap sufficient governance and controls around processes that may have operated largely without oversight for some time. This harmony between enablement and governance is where successful adoption lies.

Katie Boswell

Managing Director Cyber Security Services KPMG in the US

or rely on third parties. While it may seem that one option is less uncertain, the truth is that both come with inherent risks that organizations must recognize and effectively manage.

Organizations must educate themselves about the safeguards around transparency, accountability, fairness, privacy, and security so they can innovate and deploy with confidence. For example, look to large technology companies and jurisdictions that are further along in their Al journey for guidance around responsible development.

From a privacy and security perspective, many organizations are having their hands forced in a sense. With so many business units moving full steam ahead



Embed cybersecurity and privacy, for good global boundaries

ng Modernize supply ies chain security Unlock the potential of AI — carefully Supercharge security with automation

Make identity individual, not institutional

Align cybersecurity with organizational resilience Cyber strategies for 2024

with AI, CISOs and Chief Product Officers (CPOs) must follow along and ensure the necessary controls are installed. Establishing and maintaining trust in those AI solutions from the outset is critical, for the brand and the ability to meet its business objectives.

This requires cross-functional cooperation, especially from a funding perspective. But to thoroughly embrace and pursue the innovation opportunities, organizations need to agree on a unified security, privacy, data science and legal strategy. Taking a cue from the EU AI Act, the US government recently made its commitment to this collective imperative clear by issuing a sweeping Executive Order on Safe, Secure and Trustworthy Artificial Intelligence that codifies safety and security, privacy, equity and civil rights, and innovation and competition in relation to AI.⁸

Strike a balance between rapid Al innovation and implementing robust privacy and security measures

Data is the critical linchpin for security in general and privacy in particular. The industry needs government bodies worldwide to harmonize because having disparate legislation under which some countries are stricter than others disincentivizes innovation. The market needs to balance that need for innovation with effective regulatory guidance and guardrails.

This is a cultural mindset shift as well as a technological shift, with change management as a critical success factor. To integrate privacy- and security-by-design thinking with AI and other emerging technologies, the professionals that manage them — not just the technologies — must advance privacy- and security-first mindsets. If the organization considers privacy and security from the beginning, they will become natural components of the operating model.

If the world stays the course in adopting AI to meet innovation needs, it will eventually be business as usual, like with cloud adoption.

There was a time not long ago when moving to the cloud was a monumental undertaking. Now, it's just part of regular business practice — there's no aspect of security that doesn't have a cloud element. We see that as the likely progression for AI as well. There won't be "AI security" because it will be part of overall security.

⁸ Whitehouse.gov, Briefing Room, Presidential Actions, "Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence," October 30, 2023.





Embed cybersecurity Nav and privacy, for good glob

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully Supercharge security Ma with automation

Make identity individual, not institutional Align cybersecurity with organizational resilience

Cyber strategies for 2024

Suggested actions

公	Å
Ň	8

Align your Al framework with current standards and develop solid Al governance by aligning the priorities of the various business leaders in the organization and gaining cross-functional support from those with a vested interest in the success of Al.



Ensure the purpose of Al algorithms, whether developed in-house or externally, is clearly defined and documented and training data is relevant, appropriate for the business objective, and secure consent.

<u> </u>	
EA.	

Acquaint yourself with the stipulations of the EU Al Act and the Biden administration's Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence.

Learn more



Embed cybersecurity and privacy, for good

global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security with automation

Make identity individual, not institutional

vidual, al Align cybersecurity with organizational resilience Cyber strategies for 2024

Consideration 6

Supercharge security with automation

Businesses are increasingly moving systems to the cloud, the volume of data that needs protection is skyrocketing, and more people are working remotely and accessing corporate networks with their own devices. As a result, the cyberattack surface is expanding, creating more alerts, false positives and triage events for CISOs to manage. There's a lot of noise in security operation centers (SOCs), and there aren't enough panes of glass or humans to deal with the volume. How can CISOs keep detecting threat after threat and feel they're not missing something? They need to collect, correlate and escalate the signals that require a response and it must be done rapidly. The only way to do that is through automation.



There is huge proliferation of security vulnerabilities from multiple scanner sources. It's imperative to co-relate and identify issues that are real threats. This enables CISOs and governance teams to get a broad-ranging risk view of the organization and sheds light on where we need more human resources with specialized skills. Automation affords security teams the luxury of knowing what to prioritize.

Pratiksha Doshi Partner Cyber Security Services KPMG in India



Embed cybersecurity Navigate blurring and privacy, for good global boundaries

chain security

Modernize supply

Unlock the potential Supercharge security of AI — carefully

with automation

Make identity individual, not institutional

Align cybersecurity with organizational for 2024

Why automate security at this moment?

Digital agendas are proliferating at a massive rate. At the same time, many organizations see themselves as tech companies, regardless of their core business, because of the explosion of new digital technologies so many must adopt and master. For example, financial institutions are now nearly completely digital in terms of customer interaction, and many health service providers are utilizing telemedicine, Al-powered medical devices, and blockchain-based record keeping.

As operating models digitize, security teams need to automate and upgrade their processes to keep pace. Indeed, targeted attackers are also using new technology and growing more sophisticated seemingly by the week. And they're not merely attempting to gain access to the environment but also using AI to commit fraud once there. Cybercriminals are using deepfakes ---synthetic media files manipulated to mimic another person's face, voice, or actions - to contact call centers and initiate more credible phishing campaigns.

CISOs must be as sophisticated as would-be attackers to wade through the chatter and identify legitimate incidents quickly — the most efficient way to do that is to embrace automation and AI in the SOC. Automating simple security functions such as log management, threat scanning and access controls will enable security teams to pursue more agile and efficient response times.

Many organizations across numerous industries are successfully automating the security function and freeing up human resources by automating routine, repetitive, albeit vital tasks. Work that was previously

performed by highly trained professionals, such as vulnerability scanning, log analysis and compliance, can be standardized and executed automatically.

Automation is transforming the broad security landscape

Security automation is becoming a critical tool across every cybersecurity function, the first being prevention. Automating scheduled procedures and updates can play a key role in ensuring corporate and sovereign defenses are resilient and trusted as organized and roque bad actors expand their scale and accelerate their attacks. Automation can also help secure the third-party ecosystem, assessing vulnerabilities and exposing weak links within vendor and supplier ecosystems.

On the detection and response side, automation can be valuable in helping CISOs create a level of self-service security, which can be instrumental in completing assessments and testing and rolling the results into the production network. This significantly reduces the workforce that would otherwise be required. Further, if specific IP addresses are already blacklisted, there is no need for human intervention and ticket analysis can be automated.

Bad actors use automation to scale and increase the speed of their attacks. The most effective way to defend against an automated attack is with automated detection and response. In the event of a breach, automated monitoring processes can identify security incidents in near real-time and commence remediation by altering access policy rules or placing questionable devices or users in guarantine.

66 33

CISOs and their security organizations implement automation to validate controls by collecting real-world evidence and proving the controls are working as prescribed. This streamlines risk management and governance for the first, second, and third lines of defense.





Embed cybersecurity and privacy, for good

y Navigate blurring I global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security Make ide with automation not in

Make identity individual, not institutional Cyber strategies for 2024

Some security organizations implement automation to collect digital forensic evidence and validate that the controls are working as prescribed. This streamlines risk management and governance for the first, second and third lines of defense.

Regulatory compliance is another prime example of the value of automation. For instance, in July 2023, the SEC adopted rules for public companies on cybersecurity

risk management, strategy and governance. Under the rules, material security incidents must be reported within four business days. To comply with this requirement, companies must detect the incident, assess its significance, and then file the report. Establishing a workflow that automatically generates and submits the required Form 6-K filing can be a particularly useful way to support compliance efforts.⁹

⁹ SEC.gov, SEC Adopts Rules on Cybersecurity Risk Management, Strategy, Governance, and Incident Disclosure by Public Companies, July 26, 2023.



For global organizations, this goes even further than filing 6-Ks. A range of regulatory reporting requirements must be met in different formats and timeframes sometimes measured in hours. Automating these processes could be the difference between compliance and violations.

Align cybersecurity

with organizational

Automation impacts security teams and the business from a people and skills perspective

Automation augments the security processes and enables CISOs to prioritize where human workers are best deployed. There appears to be a huge proliferation of security vulnerabilities from multiple scanner sources, and it's imperative to co-relate and identify issues that are real threats. This enables CISOs and governance teams to get a comprehensive risk view of the organization and sheds light on where the world needs more human resources with specialized skills. Automation affords security teams the luxury of knowing what to prioritize.

Clearly, there will be changes in the work security teams perform. Increasingly, humans will focus on more strategic issues involving threat assessment, awareness training, and business alignment, to name just a few, rather than performing the type of repetitive tasks that can be done by AI or predictive analytics engines.

And this work will require new skill sets. For example, CISOs and their teams must start to understand how large language models work, how they can be trained, how to program them, etc. There is also a need to build awareness of and proficiency in security concepts in connection with the cloud, the Internet of Things, and AI.



Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security

Unlock the potential of AI — carefully Supercharge security N with automation

Make identity individual, not institutional Align cybersecurity with organizational resilience

Cyber strategies for 2024

Suggested actions

Ŕ	

Define your initial vision and strategy for automation. Consider your shortand long-term security objectives, ensure how those goals align with the organization's business priorities, and determine the type of protections those shared objectives require.



Identify what data the organization has centrally accessible and define an automated continuous controls monitoring plan to drive efficiencies across all three lines of defense.

7	
10	\mathcal{B}
ן לנ	<u>)5 .</u>
' બ	s v
R	

Determine what tools to build versus acquire and understand how supply chain partners are automating to strengthen trust between the organizations and leverage that learning where appropriate.

Learn more



Embed cybersecurity N and privacy, for good gl

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security Make in with automation not

Make identity individual, not institutional

Align cybersecurity with organizational Cyber strategies for 2024

Consideration 7

Make identity individual, not institutional

Every organization with which consumers interact assigns them a unique digital identity, and just as usernames and passwords vary, authentication methods do as well. From a cybersecurity perspective, the identity model is evolving. Most identity and access management (IAM) models were originally devised to manage digital identities and user access for single organizations. Many are now being reconceptualized to encompass a level of resilience suitable for federated, private, public or multi-cloud computing environments. This should eliminate the need for individuals to ensure the exhaustive, time-consuming and intrusive process of identity-proofing every time they interact with a new institution, either as a customer or employee.

Traditional identity models taking on a federated approach

In the current environment, being confident in the identity of people with whom businesses interact is a top concern for security leaders — and very much a moving target. Over the past 10 or 20 years, most organizations designed and implemented their identity management programs. The thinking among security professionals was, 'If I implement it myself, I have full control.' Control notwithstanding, this approach created a very isolated point of view and increased the number of unique identities to be managed. From a customer perspective, we ended up with tens or hundreds of identities, one for each business we connected with.

Today, the line between business-to-consumer (B2C) and business-to-business (B2B) security has blurred considerably. Leaving aside the fact that B2B users typically have deeper access to network resources than B2C users, they are both external users, which has led organizations in many cases to largely merge the two in terms of their identity management approaches.

Driven by expanding business models, it's vital that organizations now view identity not in isolation but from a holistic perspective. That's an important driver toward an identity model where suppliers and end-customers can nimbly interact with multiple organizations without being forced to endure a complicated identity-proofing process each time.

Consmers should control their digital identities, which should be portable between their consumer and employee personas. There has been improvement in recent years around the level of cyber assurance

- " " "

As assurance levels associated with those identities increases, we are beginning to see a trend toward a federated identity model — that is, fewer distinct digital IDs that can be securely leveraged across different domains.

Marko Vogel

Partner Cyber Security Services KPMG in Germany





Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security Make ide with automation not in

Make identity individual, not institutional Align cybersecurity with organizational resilience Cyber strategies for 2024

provided by many prominent technology and social players, with IDs being leveraged across the digital commerce ecosystem. As confidence in those identities increases, we are beginning to see a trend toward a federated identity model —fewer distinct digital IDs that can be securely leveraged across different domains.

Evolving to a model where digital identities with high levels of assurance are the standard will enable businesses to collect, store and process less personally identifiable information (PII), which would be a decidedly positive outcome for consumers.

The value of blockchain in identity management bears mentioning here. Increasingly, distributed ledger systems are being used to develop effective federated identity models. Integrating security infrastructure with blockchain technology provides trust through visibility, verifiable consent, encryption and audit trails. This helps organizations address privacy and fraud issues by delegating data rights management and access control to the subject rather than a centralized third party.

The higher the level of assurance a digital identity has, the more portable it will be. And when IDs are portable, we can expect to see a trend toward fewer overall consumer logins — fewer digital identities. Ultimately, we need to not only make identities portable — indeed, digital wallet use is expected to exceed five billion users globally in 2026, an increase of more than 50 percent from 3.4 billion in 2022¹⁰ — but consistently tamper-proof and verifiable. This is where biometrics — using unique biological, physical and behavioral identifiers — can come into play.

A related consideration is when, or if, organizations may jettison passwords, one of the top points of failure for all identity systems. Moving away from the password model and broadening the use of multiple factors of authentication (device, location, biometric, behavior) for secure identity validation, particularly across the business ecosystem, seems productive. Will passwords actually disappear? It's likely still years away, but we appear to be moving in that direction.

Deepfake technology is changing the identity game

The threat posed by deepfakes — synthetic image, video or audio files in which an individual's face, voice, or actions are manipulated and replaced — is very real, as are the accompanying financial, reputational and service implications. CISOs must accelerate security innovation to keep pace.

With technology evolving at a breathtaking pace, deepfake-related concerns are scaling more rapidly than they did in connection with phishing 25 years ago. Today, bad actors are looking for bigger targets than individual consumers or public figures. Creative, ambitious cybercriminals with access to the latest technology have set their sights on more profitable targets corporations, institutions and sovereigns — many of which are ill-prepared to defend against this threat.

The key question is what it will take to train technology to make audio and video deepfakes that can consistently defeat biometric-based authentication.

66 77

Evolving to a model where a digital identity with a high level of assurance is a reality will enable businesses to collect, store and process less personally identifiable information — that is a decidedly positive outcome for consumers.

Jim Wilhelm

Principal Cyber Security Services KPMG in the US

The cost considerations alone suggest it will require increasingly sophisticated attackers, but as access to the technology broadens, it will get less expensive, making it easier for bad actors to employ deepfakes as a fraudulent tactic.

A key concern regarding deepfakes is the funding required for detection, from maintaining the appropriate computing power, forensic algorithms, and audit processes to the talent needed to employ these tools. CISOs are encouraged to initiate conversations with senior decision-makers to ensure budgets match the emerging threats and keep technology up to date by ensuring software updates are installed as soon as they are released.¹¹

¹¹ KPMG in the US, "Deepfakes: Real threat," 2023.



¹⁰ Juniper Research, *Digital Wallets: Market Forecasts, Key Opportunities and Vendor Analysis 2022–2026.* August 2022

Embed cybersecurity and privacy, for good

Navigate blurring global boundaries Modernize supply chain security

Unlock the potential of AI — carefully

Supercharge security Make identity individual not institutional

with automation

Align cybersecurity with organizational

Cyber strategies for 2024

Will passwords actually disappear? It's likely still years away, but we appear to be moving in that direction.



Government's role in the new identity ecosystem

The government and corporate sectors appear to be coming together on the issue of identity. For example, one government is in the process of introducing the Trusted Digital Identity Framework (TDIF). This regime specifies the minimum requirements that identity service providers must meet to achieve and maintain TDIF accreditation allowing their customers access to digital government services.

The ultimate objective is to maintain a user-friendly platform that facilitates digital identities that are accessible, secure and private. Importantly, individuals will be able to use multiple identity service providers to maintain distinct or combined personal and business digital identities.

The TDIF empowers individuals to select which digital identity to use, for which purpose and duration, and have assurance around it. Government can't do this alone — it's simply not cost-effective. What's more, corporations are likely more trusted than government entities in the current environment.

In some countries, the backdrop is more fragmented because the regulatory activity is happening primarily territory-by-territory. But that's merely the tip of the iceberg, as digital identity unearths a new set of considerations around acceptance. People routinely travel across territory borders to do business. Will their digital

credentials be accepted by officials across territory lines? Thinking about the public-private partnership aspect, if an individual has digital identification connected to a financial institution, as well as a government-issued digital credential, which one do they use in different circumstances?

resilience

Further, when people present a government-issued digital ID, should they be forced to share all of it? There are certain details that financial, healthcare or law enforcement officials want or need to see. Still. people should be able to maintain full control over what they disclose about themselves. For example, people should have the autonomy to disclose their citizenship status, college degree(s), professional gualifications/ licensure, etc., but they should not be forced to offer the underlying personal data.

Another critical question for security professionals is who owns the risk? If someone's digital identity is compromised and used for fraudulent purposes, is the issuer or the holder responsible? Depending on a digital identity's intended use, strict but manageable regulations should be imposed on corporations. This is an issue over which there must be regulation and generally accepted standards to ensure the providers of digital identities can operate collaboratively and securely.

One of the foundational tenets of the EU's General Data Protection Regulation (GDPR) is that individuals must provide consent for organizations to use their personal data in specific contexts and for specific transactions.



Embed cybersecurity Na and privacy, for good glo

Navigate blurring global boundaries Modernize supply chain security

Unlock the potential of Al — carefully Supercharge security Make identity in not institution

Make identity individual, not institutional

resilience

Cyber strategies for 2024

But if a company wants to use personal identifiable information (PII) for another purpose or sell it, they must reacquire consent. That basic imperative should be a global standard.

Similarly, the EU Digital Identity — a personal digital wallet for EU citizens and residents — will soon enable individuals to identify themselves or confirm certain personal information. This e-identity will be able to be used both online and offline for public and private services across the EU.¹²

The global regulatory position around identity is fragmented and inconsistent. To some extent, the marketplace has become numb to the steady drumbeat of data breaches. Individual and institutional customers must be vigilant about the sensitive data they disclose and where they disclose it. CISOs and their teams should keep customer demands for the responsible use of and control over data as a core factor in developing identity management policies and strategies.

Learn more

¹² European Commission, "Digital Identity for all Europeans," 2021.





Keep your approach to identity flexible to comply with the evolving regulatory environment and ensure your architecture can integrate emerging technologies into the security process much faster than the two-, three- or four-year journeys we see today.



Explore more agile and interoperable identity systems to facilitate a federated identity ecosystem.



Consider your role, now and in the future, as an identity/ credential issuer, relying party, digital wallet provider or all three in this evolving identity ecosystem.



Embed cybersecurity Naviga and privacy, for good global l

global boundaries

Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security M with automation

Make identity individual, not institutional Align cybersecurity with organizational resilience

Cyber strategies for 2024

Consideration 8

Align cybersecurity with organizational resilience

During a cyber incident, organizations need a response measured in minutes and hours, not days and weeks. In today's volatile environment, resilience has become a common theme for organizations across critical infrastructure sectors such as energy, communications and transportation, with executives focused on recovery if preventative controls fail. Resilience should seamlessly align with cybersecurity, emphasizing protection, detection, and rapid response and recovery. Cyber resilience is vital for maintaining business operational capabilities, safeguarding customer trust, and reducing the impact of future attacks. These disciplines should work in tandem to help organizations manage risk.

- 66 77

Resilience means being better equipped to manage incidents quickly, comprehensively, and with less impact on the business. It doesn't mean there will never be another incident. CISOs can't control external threats but can control the organization's preparedness.



EMA Cyber Security Leader and Partner KPMG in Ireland



Embed cybersecurity Navig and privacy, for good global

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully Supercharge security with automation Make identity individual, not institutional

individual, tional Align cybersecurity with organizational resilience Cyber strategies for 2024

Rebuilding trust is key after an incident

When a data breach or ransomware attack occurs, trust is the first asset to be impacted. And trust is absolutely a corporate asset. How well organizations are prepared and how quickly they can respond, and recover are key determinants in restoring customer and, for public companies, investor trust.

When organizations commit to earning — and re-earning — the trust of these vital stakeholders, they place themselves firmly on the path to operational resilience. In some cases, rebuilding trust is about rapid technical recovery; in others, it's about identifying alternate ways of delivering services. In every instance, it's about identifying vulnerable and/or impacted stakeholders, expeditiously addressing their needs and minimizing disruption.

Regulators across all regions are now putting a greater emphasis on resilience and trust. For example, rules adopted in 2021 by the UK's Financial Conduct Authority are intended to ensure that important business services in the UK's financial services sector operate with sufficient resilience in the event of operational disruptions. Companies are required to demonstrate that they take a resilience-by-design approach. This framework is based on the notion of avoiding "widereaching harm to consumers and risk to market integrity" as a result of a cyber event.¹³

Mission criticality: Focus on what matters with advance planning

Every organization is unique in what they do and how they do it, but from a security perspective, it's universally instructive to conduct structured, scenario-based tabletop exercises in advance of a cyber incident to ensure people, processes and technology are aligned.

Scenario planning shouldn't simply be a box that gets checked. These exercises reveal the strategic choices around how organizations deal with a major disruptive event like a ransomware attack and build confidence that leadership is prepared to coordinate response efforts and manage and ultimately lessen the impact on customers and clients. It's also imperative for organizations to determine in advance which business processes truly are mission-critical and need to be brought back online as soon as possible.

""

Continuously assessing the state of the organization's cyber resilience as a primary pillar of its overall preparedness and going through prioritization exercises is critical to maintaining a cybersecurity plan that is both fit for purpose and fit for the moment. It provides a response road map.

Jason Haward-Grau

Global Cyber Recovery Services Leader KPMG International and Principal KPMG in the US Cyber resilience, the ability to adapt to and weather a cyber incident, defers from business continuity, the procedures an organization follows to operate during an incident. Resilience is strategic, while continuity is process oriented. In that sense, it's much less stressful to carry out a resilience exercise before a recovery situation than in the middle, when multiple business areas may be in panic mode.

Continuously assessing the state of the organization's cyber resilience as a primary pillar of its overall preparedness and going through prioritization exercises is critical to maintaining a cybersecurity plan that is both fit for purpose and fit for the-moment. It provides a response and recovery road map.

Every day, advanced persistent threat actors leverage different attack vectors in new ways. This evolution is a reality that CISOs must consider. Having a written and vetted resilience plan as a springboard to tangible action is much more effective than brainstorming during an attack.

Avoid complacency amid a changing threat landscape

Organizations' baseline security is getting better. At the same time, the business and supply chain landscapes are evolving, with increased dependency on a web of suppliers for IT, software and other services, and organizations experimenting with new technologies such as AI, Web 3.0 and smart products.

In response, attackers — organized/state-supported and lone actors — are becoming more sophisticated, exploring new vectors and manipulating reality through identity hacking and deepfakes. Today's attacks have shifted to include supply chain compromises and double or triple extortion ransomware backed by a complex "crime-as-a-service" ecosystem.¹⁴

¹³ Financial Conduct Authority, Policy Statement PS21/3, "Building operational resilience," March 2021.

¹⁴ KPMG International, "Maintaining cyber vigilance and staying resilient," 2023.

Embed cybersecurity Navig and privacy, for good globa

Navigate blurring global boundaries Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security with automation Make identity individual, not institutional

ividual, nal Align cybersecurity with organizational resilience

Cyber strategies for 2024

Bottom line, organizations need to follow a dynamic approach to resilience. They can't be complacent because not only is the threat changing, but the way bad actors seek to disrupt both internal processes and supply chains is also changing.

Organizations need to continually improve and adapt. Resilience means being better equipped to address an incident quickly, comprehensively, and with minimal business impact. It doesn't mean there will never be another incident. CISOs can't control external threats but can control the organization's preparedness.

The investments of time, people and budget should not be focused solely on incident avoidance but instead on cultivating an enduring state of resilience that becomes an integral, embedded component of the overarching cybersecurity plan. There's an ongoing arms race between organizations and bad actors, and the latter are constantly evolving and innovating faster — because it's all they think about. If CISOs understand and manage the organization's security drift, they can chip away at attackers' ability to identify and exploit vulnerabilities.

As organizations navigate today's evolving and volatile cybersecurity landscape, resilience should not be viewed as a series of one-off or intermittent projects. Rather, it should be an adaptive strategy that complements the organization's cybersecurity agenda, protects customer interests, aligns with the objectives of the business, and focuses on delivering long-term value.

Learn more

Suggested actions



Assess how the organization can respond better and faster if attacked again next week and next month/year to identify 'quick wins,' like expediting payments, ensuring liquidity, improving communication and enhancing response speed.



Foster organization-wide behaviors and cultural alignment to prioritize what truly matters to the organization in terms of data, services and infrastructure.



Regularly update plans and playbooks to align with the evolving threat landscape and IT and supply chain dependency changes.

KPMG

Cyber strategies for 2024

What actions can CISOs, and the broader business lines take in the year ahead to help ensure security is the organization's golden thread? Following is a short list of recommendations CISOs should consider as they seek to accelerate recovery times, reduce the impact of incidents on employees, customers, and partners and aim to ensure their security plans enable — rather than expose — the business.

People



- Connect with your organization's ESG team to determine whether they consider cyber a key aspect of their mandate. If not, work to build awareness of how and why it's important to all three areas of ESG.
- Bring a new perspective to the board on what could disrupt the business and what should be done to manage those risks without impacting operations and customer experience.
- Foster organization-wide behaviors and cultural alignment to prioritize what truly matters to the organization in terms of data, services and infrastructure.
- Determine how and where to embed certain security tasks within the business vs. outsourced to a third-party service provider and monitor those tasks to ensure they are carried out properly.
- Be practical. Effective cybersecurity is not as much about getting business partners to do things differently as it is about reframing the conversation across the enterprise to inspire other areas of the organization to infuse security into what they already do.

Process



- Run the cyber team like a business, which means you must give up a degree of control over what other parts of the organization are doing from a security perspective.
- Define your initial vision and strategy for automation. Consider your short- and long-term security objectives, ensure how those goals align with the organization's business priorities, and determine the type of protections those shared objectives require.
- Enhance transparency to build trust across global supply chains; rather than treating third-, fourth-, and even fifth-party supplier relationships solely as transactional and contractual (which they are), approach them as an extension of your ecosystem.
- Regularly update plans and playbooks to align with the evolving threat landscape and IT and supply chain dependency changes.
- Take a risk-based approach to assessing third-party processes rather than a blanket approach to different suppliers that provide diverse services.
- Encourage crowdsourcing of intelligence and sharing both within your organization and with trusted third parties.
- Assess how the organization can respond better and faster if attacked again next week and next month/year to identify 'quick wins,' like expediting payments, ensuring liquidity, improving communication and enhancing response speed.



Meet customer	
expectations,	
improve trust	

Modernize supply

chain security

Align cybersecurity

Data and technology



- Identify what data the organization has centrally accessible and define an automated continuous controls monitoring plan to drive efficiencies across all three lines of defense.
- Know where critical data both structured and unstructured resides across the organization, as well as where it is shared with third-party partners.
- Ensure the purpose of AI algorithms, whether developed in-house or externally, is clearly defined and documented and training data is relevant, appropriate for the business objective, and secure consent.
- Leverage intelligent automation to gain higher visibility into the changing supplier risk profiles and build a sustainable and scalable forward-looking third-party program.
- Determine what tools to build versus acquire and understand how supply chain partners are automating to strengthen trust between the organizations and leverage that learning where appropriate.
- Explore more agile and interoperable identity systems to facilitate a federated identity ecosystem.
- Consider your role, now and in the future, as an identity/credential issuer, relying party, digital wallet provider or all three in this evolving identity ecosystem.

Regulatory



- Sharpen your global regulatory intelligence around cyber in general and ESG and privacy in particular to ensure timely compliance and reporting; keep track of and remain familiar with ever-increasing regulations and their effects on your cyber efforts.
- Align your AI framework with current standards and develop solid AI governance by aligning the priorities of the various business leaders in the organization and gaining cross-functional support from those with a vested interest in the success of AI.
- Acquaint yourself with the stipulations of the EU AI Act and the Biden administration's Executive Order on Safe, Secure, and Trustworthy Artificial Intelligence.
- Maintain an understanding of the global regulatory landscape, specifically an understanding of the relevant rules at a granular, jurisdictional level.
- Keep your approach to identity flexible to comply with the evolving regulatory environment and ensure your architecture can integrate emerging technologies into the security process much faster than the two-, three- or four-year journeys we see today.



Embed cybersecurity Nav and privacy, for good glob

Navigate blurring global boundaries

Modernize supply chain security Unlock the potential of AI — carefully Supercharge security May with automation

Make identity individual, not institutional Cyber strategies for 2024

How KPMG professionals can help

KPMG firms have experience across the continuum — from the boardroom to the data center. In addition to assessing your cybersecurity and aligning it to your business priorities, KPMG professionals can help you develop advanced digital solutions, advise on the implementation and monitoring of ongoing risks and help you respond effectively to cyber incidents. No matter where you are in your cybersecurity journey, KPMG firms can help you reach your destination.

As leading providers and implementers of cybersecurity, KPMG professionals know how to apply leading security practices and build new ones that are fit for purpose. Their progressive approach to cybersecurity also includes how they can deliver services, so you can expect to work with people who understand your business and your technology.

Whether you're entering a new market, launching products and services, or interacting with customers in a new way, KPMG professionals can help you anticipate tomorrow, and move more efficiently with secure and trusted technology. That's because they can bring a combination of technological experience, deep business knowledge, and creative professionals passionate about helping you protect and build stakeholder trust.

KPMG. Make the Difference.

Learn more at kpmg.com/cybersecurity





Embed cybersecurity and privacy, for good

Navigate blurring global boundaries

Modernize supply chain security

Unlock the potential of AI — carefully

tial Supercharge security y with automation Make identity individual, not institutional

al, Align cybersecurity with organizational resilience Cyber strategies for 2024

Meet the authors



AkhileshTuteja Global Cyber Security Leader KPMG International Partner, KPMG in India

In addition to serving as the Global Cyber Security practice leader. Akhilesh heads the IT Advisory and Risk Consulting practices for KPMG in India. He is passionate about how developments in information technology can help businesses drive smart processes and effective outcomes. Akhilesh has advised many clients on cybersecurity, IT strategy and technology selection and helped them realize the business benefits of technology. He is also knowledgeable in the area of behavioral psychology and is enthusiastic about addressing the IT risk issues holistically, primarily through the application of userbehavior analytics.



Kyle Kappel Cyber Security Services Network Leader Principal, KPMG in the US

As the US Leader of KPMG's Cyber Security practice, Kyle has more than 20 years of experience in the information systems field and a diverse background in cybersecurity, data privacy, regulatory compliance, risk management, and general technology issues. While he has strong technical skills, Kyle utilizes a business-centered approach to solving technology problems by addressing root causes rather than technical symptoms. He is a trusted advisor to numerous organizations, working with senior executives, including Boards of Directors, audit committees, Chief Information Officers, Chief Financial Officers. Chief Operating Officers, Chief Technology Officers and Chief Information Security Officers.



Dani Michaux EMA Cyber Security Leader Partner, KPMG in Ireland



Matt O'Keefe ASPAC Cyber Security Leader Partner, KPMG Australia



Prasanna Govindankutty Americas Cyber Security Leader and Principal, KPMG in the US

In more than 22 years in cybersecurity, Dani has worked with government agencies on national cybersecurity strategies and with international regulatory bodies on cyber risk. She has extensive experience working with clients to improve Board-level understanding of cybersecurity matters. She has built and managed cybersecurity teams as a CISO at telecommunications and power companies in Asia. Dani advocates for inclusion and diversity and women's participation in computer science and cybersecurity. She previously led the Cyber Security and Emerging Technology Risk practices for KPMG in Malaysia and the ASPAC region and also led KPMG's global IoT working group.

Matt is responsible for driving KPMG's cyber strategy within the 12 KPMG member firms in Asia Pacific. He has more than 25 years of technology, finance, assurance and advisory experience, focusing on financial services industry clients. Matt specializes in technology advisory, particularly in superannuation and wealth management, banking and insurance, and provides a range of services across technology governance and risk, cybersecurity, project management, IT strategy and performance. He is deeply interested in using technology to advance organizational goals, enabling clients' digital strategies and operating models, and protecting data, assets and systems.

Prasanna is a principal in KPMG's Cyber Security Services based in the US. He's the Americas Cyber leader with 20 years of specialized experience in cybersecurity and technology risk transformation. Previously, he led the Global and US Powered Cyber solution for KPMG. With a deep understanding of market-leading technology solutions for cyber and governance, risk and compliance (GRC) functions, he helps clients with their integrated transformation. Prasanna leverages his extensive experience in technology-based transformation to help his clients in the energy, media and telecom sectors.



Embed cybersecurity Navigate blurring and privacy, for good global boundaries

g Modernize supply chain security Unlock the potential of AI — carefully

Supercharge security N with automation

Make identity individual, not institutional Align cybersecurity with organizational resilience Cyber strategies for 2024

Acknowledgements

This report would not be possible without the invaluable planning, analysis, writing and production contributions of colleagues around the world.

Our global cyber considerations team:

John Hodson Billy Lawrence Leonidas Lykos Michael Thayer Jessica Booth

KPMG firms'collaborators:

Katie Boswell KPMG in the US katieboswell@kpmg.com

Pratiksha Doshi KPMG in India pratikshadoshi@kpmg.com

Danny Flint KPMG Australia dflint@kpmg.com.au

Brian Geffert KPMG in the US bgeffert@kpmg.com

Jason Haward-Grau Principal, KPMG in the US jhawardgrau@kpmg.com

Elizabeth Huthman KPMG in the UK elizabeth.huthman@kpmg.co.uk Sylvia Klasovec Kingsmill KPMG in Canada skingsmill@kpmg.ca

Mika Laaksonen KPMG in Finland mika.laaksonen@kpmg.fi

Angela Leggett KPMG in the US aleggett@kpmg.com

Orson Lucas KPMG in the US olucas@kpmg.com

Dani Michaux KPMG in Ireland dani.michaux@kpmg.ie

Mitushi Pitti KPMG in the US mitushipitti@kpmg.com Caroline Rivett KPMG in the UK caroline.rivett@kpmg.co.uk

Henry Shek KPMG China henry.shek@kpmg.com

Akhilesh Tuteja KPMG in India atuteja@kpmg.com

Marko Vogel KPMG in Germany mvogel@kpmg.com

Jim Wilhelm KPMG in the US jameswilhelm@kpmg.com



Contacts

Akhilesh Tuteja Global Cyber Security Leader KPMG International and Partner KPMG in India atuteja@kpmg.com

Prasanna Govindankutty Americas Cyber Security Leader and Principal KPMG in the US pkgovindankutty@kpmg.com Kyle Kappel Principal, Cyber Security Services Network Leader KPMG in the US kylekappel@kpmg.com

ASPAC Cyber Security Leader

Dani Michaux EMA Cyber Security Leader and Partner KPMG in Ireland dani.michaux@kpmg.ie

Some or all of the services described herein may not be permissible for KPMG audit clients and their affiliates or related entities.

Matt O'Keefe

and Partner

KPMG Australia

mokeefe@kpmg.com.au

kpmg.com



The information contained herein is of a general nature and is not intended to address the circumstances of any particular individual or entity. Although we endeavor to provide accurate and timely information, there can be no guarantee that such information is accurate as of the date it is received or that it will continue to be accurate in the future. No one should act on such information without appropriate professional advice after a thorough examination of the particular situation.

KPMG refers to the global organization or to one or more of the member firms of KPMG International Limited ("KPMG International"), each of which is a separate legal entity. KPMG International Limited is a private English company limited by guarantee and does not provide services to clients. For more detail about our structure please visit kpmg.com/governance.

© 2024 Copyright owned by one or more of the KPMG International entities. KPMG International entities provide no services to clients. All rights reserved.

The KPMG name and logo are trademarks used under license by the independent member firms of the KPMG global organization.

Throughout this document, except where context indicates otherwise "we", "KPMG", "us" and "our" refers to the global organization or to one or more of the member firms of KPMG International Limited ("KPMG International"), each of which is a separate legal entity.

Designed by Evalueserve.

Publication name: Cybersecurity considerations 2024 | Publication number: 139117-G | Publication date: January 2024