

Comprehensive Guide to Regulatory Compliance

Checklist of 10
Security and
Privacy Compliance
Requirements for
Cybersecurity, Risk
Management, and
Compliance Leaders



Executive Summary

The regulatory landscape for data privacy and cybersecurity is rapidly evolving, presenting significant challenges for organizations worldwide. Key developments include the proliferation of global data privacy laws, the emergence of AI-focused regulations, the implementation of the Cybersecurity Maturity Model Certification (CMMC 2.0), and increased scrutiny of cross-border data transfers.

This guide provides a comprehensive roadmap for cybersecurity, risk management, and compliance leaders to navigate these challenges effectively. By understanding the current regulatory environment and implementing robust data protection measures, organizations can enhance their security posture, ensure compliance, and build resilience against cyber threats.

Almost half (43%) of businesses did not pass a compliance audit in the past year, with 31% suffering a data breach (compared to 3% that passed their compliance audits).¹

70% of countries—137—worldwide now have data privacy laws in place.² Gartner predicts **75% of the world's population** will be covered with **data privacy laws** by the end of 2024.³

1. Understanding the Evolving Regulatory Landscape

The global regulatory environment for data privacy and cybersecurity has become increasingly complex in recent years. Organizations must navigate a web of regulations that vary by region and industry, each with specific requirements aimed at protecting personal data, ensuring transparency, and securing sensitive information.

Global data privacy regulations such as the General Data Protection Regulation (GDPR), California Consumer Privacy Act (CCPA), and Brazil's Lei Geral de Proteção de Dados (LGPD) have set new standards for how organizations collect, process, and protect personal information. These regulations emphasize user consent, data transparency, and individual rights to access and delete personal information.

Sector-specific regulations add another layer of complexity. In healthcare, the Health Insurance Portability and Accountability Act (HIPAA) sets standards for protecting patient health information. Financial institutions must comply with the Payment Card Industry Data Security Standard (PCI DSS) and Financial Industry Regulatory Authority (FINRA) requirements. Telecommunications providers face regulations from bodies like the Federal Communications Commission (FCC) in the U.S. and the European Electronic Communications Code (EECC) in the EU.

Emerging regulations are further shaping the compliance landscape. The EU AI Act aims to govern the ethical use of artificial intelligence, focusing on minimizing risks to privacy and ensuring AI-driven processes comply with data protection standards. For U.S. defense contractors, the Cybersecurity Maturity Model Certification (CMMC 2.0) establishes new cybersecurity standards to protect controlled unclassified information within the Defense Industrial Base. Finally, for EU-based organizations, NIS 2 requires implementation of robust security measures for their network and information systems to enhance cybersecurity requirements to protect against ICT risks, with severe penalties for noncompliance.



Less than half of organizations (48%) claim that 75% or more of their unstructured data is tagged or classified.⁴

2. Building a Data Inventory and Classification System

A comprehensive data inventory and classification system is critical for organizations to ensure the protection of sensitive data and compliance with regulatory requirements. This process involves identifying, categorizing, and managing data throughout its life cycle.

The first step is conducting a thorough data inventory to understand what information the organization collects, stores, and processes. This includes identifying data sources from customer interactions, internal systems, and third-party applications. Organizations should use automated data discovery tools to map all data collection points across various departments and systems.

Once the data inventory is complete, organizations must classify data based on sensitivity, business value, and applicable regulations. Developing classification categories such as “Confidential,” “Sensitive,” and “Public,” aligned with regulatory requirements and the organization’s risk management framework, is essential. Leveraging automated classification tools that use machine learning or rule-based algorithms to tag and track sensitive data throughout its life cycle ensures that sensitive data is consistently monitored, especially in high-risk environments like cloud storage or third-party systems.

To reduce the risk of breaches and regulatory noncompliance, organizations should adopt data minimization and retention practices. This involves collecting only the data that is necessary for business operations and regulatory compliance, avoiding the storage of excessive or redundant data, and limiting the collection of sensitive information whenever possible.



The **RBAC market** is predicted to grow at a **12.4% compound annual growth rate (CAGR)** from 2023 to 2030.⁵

3. Implementing Data Protection and Privacy Measures

To ensure compliance with data privacy regulations and mitigate cybersecurity risks, organizations must implement a combination of advanced data protection technologies and robust security strategies.

Encryption is a cornerstone of data protection, ensuring that sensitive information remains secure during storage and transmission. Organizations should encrypt all sensitive data, whether it is stored on local servers, cloud environments, or being transferred between systems. Advanced encryption standards (AES-256) are recommended for data at rest, while TLS/SSL protocols should be used for data in transit to prevent unauthorized access.

Privacy-Enhancing Technologies (PETs) such as anonymization and tokenization should be employed to minimize the risk of re-identifying individuals in large datasets while maintaining data utility for analysis. These techniques strip personally identifiable information (PII) from datasets or replace sensitive data with non-sensitive placeholders.

Controlling access to sensitive data is vital to minimizing cyber risks. Implementing zero-trust architecture strengthens data protection by assuming that no entity, inside or outside the network, is automatically trusted. This approach requires strict identity verification for every user or device attempting to access organizational resources and continuous authentication and authorization based on granular security policies.

Role-based access control (RBAC) should be enforced to ensure that employees and systems can access only the data necessary for their role. This limits exposure to sensitive data, reducing insider threats and the potential for breaches. Additionally, organizations should deploy tools that monitor user behavior and network activity in real time to detect and respond to suspicious behavior, potential breaches, or unauthorized access attempts.

With the growing use of cloud services and remote work, securing data in these environments is a top priority. Organizations should use strong encryption, access controls, and security management tools to protect data stored in cloud environments. Regular audits of cloud security settings are necessary to ensure compliance with industry regulations. For remote work, secure policies should be implemented, including the use of virtual private networks (VPNs), multi-factor authentication (MFA), and endpoint encryption to safeguard sensitive data accessed from remote locations.



Two-thirds of organizations admit **they exchange sensitive content** with more than 1,000 third parties; **33% exchange content** with over 5,000 third parties.⁶

4. Third-party Risk Management

Third-party vendors have become a significant source of cybersecurity vulnerabilities, especially in the context of supply chain attacks. Managing these risks is critical to safeguarding sensitive data and ensuring compliance with regulations.

Organizations should conduct thorough due diligence on potential vendors to assess their cybersecurity practices, data protection measures, and compliance with relevant regulations. This includes reviewing their policies on data security and privacy. Verifying that vendors adhere to recognized security standards and certifications, such as SOC 2 (Service Organization Control 2) and ISO 27001 (Information Security Management), demonstrates a commitment to maintaining robust security controls.

Regular security audits and risk assessments of third-party vendors are necessary to ensure they continue to meet compliance and security requirements. These assessments should identify any new risks that may have emerged since the initial vendor onboarding. Contracts with third-party vendors should include clauses that mandate specific security controls, data protection responsibilities, and breach notification requirements. These agreements should outline the vendor's obligations for safeguarding data and reporting incidents.

Continuous monitoring of vendor security is essential. Organizations should use automated tools to track changes in their vendors' security performance, alerting them to potential vulnerabilities or breaches before they escalate.



62% of organizations lack security awareness training needed to reap significant benefits.⁷

5. Incident Response and Breach Notification Compliance

Having a robust incident response plan is essential for mitigating the impact of data breaches and complying with breach notification regulations. Organizations should develop a detailed incident response plan that includes procedures for detecting, responding to, and containing data breaches. The plan should define the roles and responsibilities of key personnel across the organization, ensuring swift and coordinated responses to security incidents.

It is crucial to involve legal, IT, and public relations teams in the response plan development. Legal counsel will ensure compliance with regulatory requirements, IT will handle the technical aspects of breach response, and PR will manage communications with stakeholders and the public.

Each regulation has specific timelines for reporting data breaches. Under GDPR, organizations must notify regulators within 72 hours of discovering a breach. CCPA and HIPAA also have strict notification obligations, with varying timelines based on the severity and scope of the breach. The incident response plan should include procedures for reporting breaches to regulators and affected individuals, as required by law. Timely and transparent communication is crucial for minimizing legal exposure and reputational damage.

To ensure the effectiveness of the incident response plan, organizations should regularly conduct tabletop exercises and breach simulations. These simulations allow teams to practice response scenarios and refine the plan based on lessons learned.



6. Data Retention, Deletion, and Record-keeping

Effective data retention and deletion policies are critical for ensuring regulatory compliance and minimizing the risks associated with storing unnecessary data. Organizations should establish clear data retention schedules based on regulatory requirements and business needs. Data should be retained only for as long as necessary to fulfill the purposes for which it was collected and to comply with legal obligations, such as GDPR's "storage limitation" principle.

Retention policies should be aligned with industry-specific regulations, such as HIPAA in healthcare or PCI DSS in financial services, ensuring that data is stored securely for the required duration and no longer. Automated tools should be used to delete data securely once its retention period has expired. These tools help ensure that data is deleted in a timely and consistent manner, reducing the risk of unauthorized access to outdated information.

Maintaining detailed records of data deletion activities is crucial as evidence of compliance. In case of an audit or regulatory inquiry, these records can demonstrate that the organization has adhered to data retention and deletion policies.

7. Fostering a Culture of Cybersecurity and Privacy Awareness

A strong cybersecurity and privacy awareness culture is essential to protecting sensitive data and maintaining compliance. Organizations should establish regular cybersecurity and data privacy training for all employees, particularly those handling sensitive data. This ensures that staff are aware of emerging threats, understand how to handle data securely, and can recognize phishing attacks and other common risks.

Training programs should be tailored based on job functions. For example, IT staff should be trained in advanced cybersecurity measures, while marketing and legal teams should focus on compliance with privacy regulations and data-handling best practices. Defense contractors should also include CMMC 2.0 compliance training to ensure employees understand the requirements for handling controlled unclassified information (CUI).

Organization-wide campaigns should be launched to raise awareness about the importance of privacy protection, especially in sectors affected by regulations like GDPR, CCPA, and CMMC 2.0. Interactive workshops, gamified learning modules, and phishing simulations can help keep employees engaged and reinforce best practices in cybersecurity and data privacy.



80% of data experts indicate AI increases data security challenges.⁸

8. Building Cyber Resilience

Cyber resilience is about ensuring that an organization can continue operating effectively during and after a cyberattack. Organizations should develop robust Business Continuity Plans (BCPs) and Disaster Recovery (DR) strategies that include clear steps to maintain operations during disruptions and to recover data after an attack. These plans should include backup and recovery protocols, along with roles and responsibilities for key personnel.

Cyber resilience should be incorporated into the organizational strategy by aligning cybersecurity efforts with business objectives. For defense contractors, this includes ensuring alignment with CMMC 2.0 requirements for protecting controlled unclassified information (CUI) during and after a cyber incident.

Regular testing of cyber defenses is crucial. Organizations should conduct penetration tests and vulnerability assessments to identify weak points in their systems. These tests simulate real-world attacks and help strengthen defenses. Disaster recovery plans should be tested through regular drills, ensuring that all systems and processes are functioning as expected. These drills help refine response strategies and improve response times.



Only 4% of DIB contractors and subcontractors reveal they are prepared for CMMC 2.0 requirements.⁹

9. Continuous Improvement: Governance, Audits, and Reporting

Governance, regular audits, and transparent reporting are essential to maintaining long-term compliance and improving security postures over time. Organizations should appoint key compliance leaders, such as a Data Protection Officer (DPO) or Chief Information Security Officer (CISO), who are responsible for overseeing the organization's compliance with privacy laws and cybersecurity standards. In defense sectors, CMMC 2.0 compliance leaders should ensure adherence to DoD regulations.

Establishing a routine schedule for internal audits helps ensure adherence to data protection policies and identifies areas for improvement. For AI-related processes, organizations should ensure that systems comply with emerging regulations like the EU AI Act by auditing AI applications handling sensitive data.

Preparing for external audits involves compiling documentation that includes evidence of compliance, incident response logs, and records of data processing activities. This ensures organizations can demonstrate compliance to regulators and external auditors. For AI-driven systems, organizations will need to demonstrate compliance with AI governance regulations to avoid penalties.

Compliance programs should be regularly reviewed and updated to reflect changes in regulations and emerging threats. For defense contractors, continuous refinement of programs to align with CMMC 2.0 requirements is necessary. AI technologies used by the organization should be subject to regular reviews to ensure compliance with global AI governance regulations.



37% of organizations are only somewhat confident—and another **13%** said they are **either not so confident or not confident** at all—when it comes to their ability to **ensure data privacy and achieve compliance** with new privacy laws and regulations.¹⁰

10. Roadmap and Checklist for Compliance

To stay ahead of evolving regulations and protect sensitive data, organizations must follow a structured approach to compliance. This involves identifying applicable regulations based on industry, region, and data processing activities, including CMMC 2.0 for defense contractors and AI regulations like the EU AI Act. A regulatory gap analysis should be performed to compare current practices with the requirements of relevant laws, helping to identify areas that need improvement.

Organizations should implement privacy-enhancing technologies, adopt a zero-trust architecture, and ensure they have a well-documented incident response plan that outlines breach detection, reporting, and recovery procedures. Regular evaluation of third-party vendors for their compliance with security standards like SOC 2, ISO 27001, and CMMC 2.0 for defense-related supply chains is crucial. Contracts with vendors should include security and compliance requirements, and their cybersecurity practices should be continuously monitored using automated tools.



Path Forward: Proactive Compliance in a Dynamic Regulatory Landscape

As organizations navigate the increasingly complex terrain of global data privacy and cybersecurity regulations, it's clear that a reactive approach to compliance is no longer sufficient. The regulatory landscape we have explored—from GDPR and CCPA to CMMC 2.0 and emerging AI governance frameworks—demonstrates that data protection and privacy have become paramount concerns for legislators and consumers alike. By implementing the strategies outlined in this guide, organizations can do more than merely comply with current regulations; they can position themselves at the forefront of data protection and privacy practices, mitigating risks, gaining competitive advantages, and fostering trust with stakeholders.

However, achieving this level of compliance maturity is not a one-time effort. It requires ongoing commitment, continuous learning, and regular reassessment of practices. Organizations must stay informed about emerging regulations, evolving cyber threats, and advancements in privacy-enhancing technologies. By embracing a proactive, holistic strategy that integrates compliance into every aspect of their operations, companies can turn the challenge of compliance into an opportunity for differentiation, innovation, and growth. In doing so, they not only protect themselves but contribute to a safer, more trustworthy digital ecosystem for all.

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