NuSummit Cybersecurity

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GUIDE

A Practical Guide to SEBI Cybersecurity Compliance with CodeSign

THIRD PARTY RISK MANAGEMENT

As cybersecurity threats escalate, financial institutions face growing pressure to ensure the integrity of their systems and applications. The Securities and Exchange Board of India (SEBI) has introduced stringent mandates under its Cybersecurity and Cyber Resilience Framework (CSCRF), emphasizing the need for strict security measures.

For Market Infrastructure Institutions (MIIs) and mobile application providers, achieving compliance with SEBI's mandates is not just a regulatory requirement but a critical step in safeguarding data, maintaining trust, and ensuring operational continuity.

This guide explores SEBI's key requirements and demonstrates how CodeSign can help institutions meet them seamlessly.

Understanding SEBI Mandates

The SEBI mandates ensure software integrity, protect mobile applications, and streamline compliance. These regulations safeguard critical systems and build resilience against cyber risks.

What SEBI Requires:

Data Security (PR.DS):

- Implement mechanisms to verify the integrity of software, firmware, and critical systems, including connected systems.

Mobile Application Security (PR.AA):

- Embed controls to prevent reverse engineering and tampering.
- Validate mobile application signatures during runtime to ensure authenticity.

Why It Matters:

Escalating Cyber Threats

Financial systems are frequent targets for cyberattacks, including malware, data breaches, and unauthorized tampering.

Customer Trust

Secure operations foster confidence in digital financial services.

Operational Continuity

Protecting critical systems ensures uninterrupted service delivery.

Challenges Faced by Financial Institutions

Compliance with SEBI mandates can be daunting due to complex IT environments, securing customer-facing apps, and managing audits. This section addresses key challenges institutions face. These include:

System Complexity

Managing the integrity of diverse software and firmware across critical and connected systems.

Mobile Security Risks

Safeguarding customer-facing mobile applications from tampering and reverse engineering.

Regulatory Audits

Demonstrating compliance through transparent logs and reports.

Resource Constraints

Balancing the cost and effort required to implement robust security measures.

How CodeSign Aligns with SEBI Mandates

NuSummit Cybersecurity's CodeSign automates integrity validation, protects against tampering, and simplifies audits, mapping directly to SEBI's requirements for secure systems and mobile applications. The mapping is explained in detail below:

Ensuring Data Security (PR.DS)

Automated Code Signing: CodeSign ensures that every software and firmware update is cryptographically signed and validated, guaranteeing integrity.

End-to-End Protection: Provides security for critical systems and connected infrastructures, reducing risks across the entire ecosystem.

Compliance Assurance: Aligns seamlessly with SEBI's requirements for verifying the integrity of systems.

Securing Mobile Applications (PR.AA)

Tamper Detection: Embeds anti-reverse engineering mechanisms, such as code obfuscation and encryption, to prevent tampering.

Runtime Signature Validation: Ensures mobile applications validate their signatures during runtime, guaranteeing authenticity.

Streamlined Protection: Integrates security during development, minimizing vulnerabilities before deployment.

Supporting Regulatory Audits

Generates detailed, cryptographically verifiable logs for all code signing activities.

Provides comprehensive reports to simplify regulatory reviews and ensure audit readiness.

Benefits of CodeSign for Financial Institutions

Beyond compliance, CodeSign enhances security, streamlines processes, and builds customer trust, offering a strategic advantage for financial institutions. Benefits include:

Regulatory Compliance

Easily align with SEBI's Cybersecurity and Cyber Resilience Framework (CSCRF).

Enhanced Security

Protect against tampered or malicious updates and unauthorized mobile app modifications.

Operational Efficiency

Automate code signing processes to reduce manual overhead and speed up software releases.

Customer Trust

Build confidence among users by ensuring secure, tamper-free applications.

Cost Savings

Minimize compliance-related penalties and reduce operational costs associated with manual processes.

Practical Tips for Implementation

Integrate Early

Embed CodeSign into your DevSecOps pipeline to streamline security during development and deployment.

Focus on Critical Systems

Prioritize systems and applications that are most sensitive or connected to regulatory requirements.

Monitor Regularly

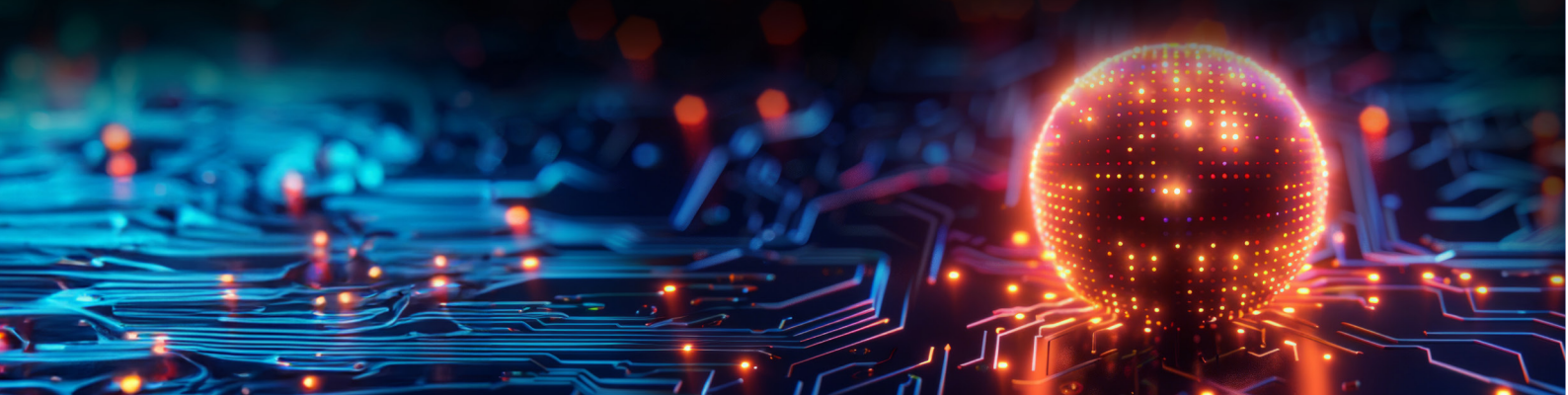
Leverage CodeSign's audit-ready logs to ensure continuous compliance and identify potential vulnerabilities.

Collaborate Across Teams

Train IT and development teams on SEBI mandates and how CodeSign helps meet these requirements.

Conclusion: A Path to Secure Compliance

Achieving SEBI compliance is more than checking a regulatory box—it's about building and increasing trust, safeguarding sensitive systems, and preparing for future threats. CodeSign empowers financial institutions to align with SEBI mandates efficiently while enhancing security and operational performance.



About NuSummit Cybersecurity

NuSummit Cybersecurity helps build and transform cybersecurity postures to enable businesses to mitigate risks. We are a pure-play cybersecurity services company with deep expertise in Identity and Access Management, Risk Advisory, Security Verification, Managed Detection and Response, and Security Engineering services.

Our unique products and services help businesses build and transform security postures while mitigating risks. Our focus is to strengthen security resilience by minimizing the occurrence of attacks, threats, and risks so that you can drive change, innovate, and accelerate growth.

For more information, visit us at **cybersecurity.nusummit.com** or write to us at **cybersales@nusummit.com**

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