

Countermeasures for Enhancing Organizational Security Governance in Public Institutions

1. Introduction

Public institutions must establish a robust security governance system to ensure collaboration among diverse stakeholders and to achieve organizational goals. The growing frequency of cyber threats and the increasing demands for compliance from supervisory bodies require a systematic strengthening of internal capabilities, asset management, and internal controls. This report analyzes the current state of organizational security governance in public institutions and presents countermeasures for improvement.

2. Current Status and Environmental Analysis

- Establishing network access control policies to address fundamental deficiencies in security indicators.
 - Conducting pre-assessments for 2025 based on results from 2024, followed by strategic planning.
 - Analyzing shortcomings identified in the previous year and developing directions for improvement.
 - Ensuring accurate understanding of the 2025 evaluation indicators and preparing response measures.
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3. Compliance with Supervisory Agencies

- Performing comprehensive inspections of vulnerabilities across institutional information systems and proposing improvement measures.
 - Conducting vulnerability assessments of network devices and office equipment.
 - Carrying out web service inspections to strengthen personal data protection measures.
 - Identifying issues through follow-up inspections and establishing specific protective measures for resolution.
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4. Vulnerability Assessment and Protective Measures

- Developing vulnerability assessment plans covering cloud environments and conducting analysis and evaluation.
 - Establishing protective measures for identified vulnerabilities.
 - Preparing implementation plans and supporting their execution to ensure the effectiveness of the security framework.
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5. Education and Training

- Reviewing and updating relevant laws and regulations to maintain compliance.
 - Conducting cyber crisis response simulation exercises that reflect threat elements within the work environment.
 - Supporting information security awareness-raising activities tailored to the institution's operational environment.
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6. Governance Framework

The governance framework to support security governance includes the following elements:

1. **Network Status Monitoring and Management Enhancement:** Prevent unauthorized IP use and strengthen network security through accurate asset management.
 2. **Checklist-Based Inspection Procedures:** Provide training on evaluation indicators, conduct quarterly inspections, and improve the efficiency of security monitoring center operations.
 3. **Response to Rapidly Expanding Environments:** Introduce automation of administrative processes, update privacy protection standards, and develop self-assessment checklists.
 4. **Practical Cyber Crisis Response:** Conduct user-friendly awareness education, develop field-oriented simulation training scenarios, and incorporate findings into medium- and long-term improvement plans.
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7. Internal Control and Asset Management

- Establish asset classification standards and asset criticality assessment criteria for systematic management.
 - Identify and analyze risks based on the asset inventory, followed by the development of mitigation plans.
 - Support the actual implementation of risk mitigation measures to strengthen security management.
 - Build an integrated management system covering internal infrastructure, IDC operations, IT, and data governance.
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8. Conclusion

Enhancing organizational security governance in public institutions goes beyond regulatory compliance and directly contributes to sustainable organizational performance. The countermeasures presented in this report—vulnerability assessment and protective measures, compliance with supervisory agencies, education and training, and the adoption of a governance framework—provide a foundation for

stronger security governance. By establishing a cooperative and responsible strategic security governance approach, public institutions can improve reliability and resilience in the public sector.