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Overview

Risk Assessment Framework

Risk Assessment Framework

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Input		Output
• Hardware & Software • System interfaces • Data and information • People & System mission	**System Characterization**	• System Boundary & System Functions • System & Data Criticality • System & Data Sensitivity
• History of system attack • Data from intelligence agencies, NIPC, OIG, FedCIRC, mass media	**Threat Identification**	• Threat Statement
• Reports from prior risk assessments • Security requirements • Security test results	**Vulnerability Identification**	• List of Potential Vulnerabilities
• Current controls • Planned controls	**Control Analysis**	• List of Current and Planned Controls
• Threat-source motivation • Threat capacity • Nature of vulnerability • Current controls	**Likelihood Determination**	• Likelihood Rating
• Threat-source motivation • Threat capacity • Nature of vulnerability • Current controls	**Impact Analysis**	• Impact Rating
• Likelihood of threat exploitation • Magnitude of impact • Adequacy of planned or current controls	**Risk Determination**	• Risks and Associated Risk Levels
	Control Recommendations	• Recommended Controls
	Results Documentation	• Risk Assessment Report

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By implementing a Risk Assessment Framework, organizations can not only protect themselves against known risks but also build resilience against emerging threats.

A Risk Assessment Framework is a comprehensive process that allows an organization to methodically identify, evaluate, and prioritize risks that could potentially impact its operations, assets, and individuals. This process encompasses several key components, starting with identifying potential hazards, evaluating vulnerabilities within the organization's systems, and assessing the potential impact and likelihood of these risks materializing.

The true value of such a framework is its ability to provide a clear methodology for dealing with uncertainty in decision-making. It facilitates a deeper understanding of both internal and external threats, enabling organizations to prepare and respond more effectively. Through this systematic approach, an organization can align its strategic objectives with risk appetite, ensuring that it can withstand and adapt to changes and potential disruptions.

Implementing a Risk Assessment Framework not only enhances operational resilience but also contributes to strategic planning and policy development. It integrates risk management into the fabric of the organization, creating a culture that values risk-aware decision-making. The ongoing nature of this process ensures that the organization remains agile, with the capacity to evolve its risk assessment and response strategies as new threats emerge and as the business environment changes.

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