



Case Study: Security Risk Assessment

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Solutions For Advanced Services

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Delivering higher business performance

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Assessments and Business Value

Altius IT's security risk assessments:

- Determine if your testing process has identified known security risks
- Identify and quantify your product security related strengths and weaknesses
- Help you manage product risks
- Provide your customers peace of mind that material weaknesses have been addressed

Risk Management

Altius IT provides risk management services that allow your organization to reach new heights. Since not all vulnerabilities can be eliminated, we identify risks so our clients can take the appropriate corrective action:

- *Mitigate risk* - reduce risks by implementing appropriate changes
- *Transfer risk* - share risk through outsourcing or insurance
- *Accept risk* - acknowledge and monitor risk
- *Avoid/Eliminate risk* - remove the source of risk

Testing

Altius IT testing decreases liability in the inevitable event of a security breach or failure. It allows your organization to point to a proven assessment process that shows you have met or exceeded security standards. Altius IT testing helps reduce uncertainty and lowers insurance costs.

Altius IT testing improves safety and security in products and devices. We provide confidence that leads to a constructive and pervasive use of secure products.

Altius IT performs various testing scenarios to ensure products have been appropriately hardened. Altius IT's security testing services include penetration tests, malicious attacks, social engineering (attempting to get personnel to disclose information about the product or device), broad cyber attacks (medical device not specifically targeted), testing of encryption, connectivity, communication, authentication, and other tests.

Case Study: Product Security Risk Assessment

Client Situation

A mid-size medical product manufacturer was concerned about the security of a new device. The organization was concerned about patient confidentiality and the integrity of the product.

Altius IT Solution

Altius IT provided a security risk assessment. The Risk Assessment inventoried relevant assets and assigned the assets to asset categories. We identified specific threats and threat categories. We identified and documented vulnerabilities that existed as a result of the threats.

Our Risk Analysis evaluated risks including the likelihood of various threat exploits. We identified security gaps that could be exploited by insider and outsider attacks.

Altius IT's Risk Treatment Plan identified risk reduction and risk treatment safeguards and controls for each vulnerability.

Our Risk Task List identified preventive, detective, and corrective controls that eliminated or reduced risks to acceptable levels. Residual risks, risks that existed after controls were implemented, were identified and prioritized so that they could be monitored.

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Client Benefit

Altius IT's security assessment documented several product related threats that placed the organization at risk to both internal and external threats. The medical device manufacturer made changes to its product and achieved the following benefits:

- *Security* - security assurance knowing that the product had effective security safeguards and controls.
- *Continuity* - ability to continue functioning even if the product had been compromised.
- *Alerts* - remote notifications to appropriate personnel so they could take appropriate actions if the product was compromised.
- *Redundancy* - ability of the product to continue operating in the event of normal failures.
- *Sociability* - ability of the product to not interfere with existing systems and devices.