



Case Study: Medical Product Security 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 medical product security 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

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

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

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

We Help Businesses Succeed

Altius IT's in-depth experience ensures that your business receives enhanced services and increased performance.

As a leading information technology (IT) resource, our track record of helping businesses succeed is featured on *MSNBC* and in over 40 publications including *The Wall Street Journal*, *Business Week*, *the Los Angeles Times*, and *USA Today*.

Case Study: Product Security Assessment

Client Situation

A mid-size medical product manufacturer is concerned about the security of its new device. The organization is concerned about the integrity of the product and also wants a review of their risk management document.

Altius IT Solution

Altius IT provided a security assessment starting with a Risk Analysis. The Risk Analysis identified the assets (products), product related threats and vulnerabilities, and possible controls to mitigate risks. The residual risks, risks that existed after controls were implemented, were scored and prioritized. Several risks included:

- *Continuity* - ability to continue functioning even if the product had been compromised.
- *Alerts* - notifications to appropriate personnel so they could take the appropriate actions. Possible remote connectivity to mitigate risks.
- *Redundancy* - ability of the product to continue operations in the event of normal failures.
- *Sociability* - ability of the product to not interfere with existing systems and devices.

Altius IT performed various testing scenarios to determine if the products had been appropriately hardened. Altius IT's security testing services included 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.

Client Benefit

Altius IT's services helped the medical product manufacturer by identifying, managing, and reducing its product security related risks. Altius IT's templates, best practices, policies, and framework helped ensure the organization's business objectives were achieved.

Altius IT's security assessment documented several areas product related threats that placed the organization at risk to both internal and external threats. The medical product manufacturer received a prioritized Action Plan that helped the organization increase product security while protecting the organization's image and reputation.