

Medical Device Security Standards

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Regulatory Impact on Security and Innovation

- ❖ Heavier regulations can carry risks too:
 - Organizations shift resources from design and testing to audit response.
 - Regulatory frameworks are slow to change relative to rapid changes in threat tactics and targets – are we even testing the most relevant controls?
 - Assessment processes can look for presence of controls but are they deployed appropriately – are we looking for quality or quantity?
 - Tend to focus on confidentiality and availability – but what about integrity controls?

- ❖ However, accountability and good faith intent must be in place!
 - Risk management “built in” to governance (release management, product planning)
 - Security reviews of the architecture as well as the product
 - The organization must practice *mature* Risk Management including threat modeling and business impact analysis
 - A trust mark representing the safety of the product is desirable

FDA Guidance as of October 2, 2014

- ✓ General Principles include risk management phases
 - Identification, inherent risk, controls, residual risk
 - References to best practices

- ✓ Cites the basics which are still important
 - Strong Authentication, Authorization, Privileged User
 - Code signatures and configuration management procedures for trustworthiness
 - Encryption of data in motion
 - Event logging and Incident Analysis & Response
 - Assume the device can be compromised and still protect critical functions

- ✓ Present top risks and be transparent about analysis
 - Map controls to risks, patch management, delivery protection, environmental controls