

Secure By Design How Cyber Security Testing of IoT is Evolving

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Landscape is Evolving - UK and EU introduce cyber security legislation

- Shift in responsibility from Consumer to Manufacturer
- Similar to other safety requirements e.g. fire
- Customers now expect a level of security on devices that they purchase.

"45% of UK consumers are more likely to buy a TV with an official certificate for high security standards over one that doesn't"*

*DTG State of the Nation Report 2022: https://dtg.org.uk/project/state-of-the-nation

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Landscape is Evolving - UK and EU introduce cyber security legislation

- UK and EU market access requirements are under development for network connected devices
- PSTI Bill is going through UK parliament now based on ETSI 303 645
- RED Cyber security requirements are coming into force in 2024









Existing cyber security testing



- Existing cyber security tests are manually intensive
- This often results in a prohibitively high cost/time for some manufacturers
- Results can suffer from subjective analysis
- Standards evolve requiring frequent retesting







Many certification schemes end here. They are a "one-off" process and do not offer much assurance for product supplied in the future.







Continual Assurance







The evolution of cyber security testing



- Our Intercept platform checks in with devices every hour of every day
- Devices connected can be viewed in our SaaS based cloud portal
- Latest reports, changes to the device, test findings and correlation with standards can be instant viewed
- Supporting the product lifecycle and ensuring the robustness of the certification







Our Solution - SafeShark

Joint cyber security testing and certification service

BSI best practice powered by SafeShark testing

- SafeShark combines accredited testing and cyber security expertise
- Set up through UK government funding, we work closely with manufacturers and international standards organisations





SafeShark Comprehensive Solution



- A combination of expert assessment and automated objective testing
- Our unique Intercept platform enables continuous monitoring of devices
- Ensure that devices remain compliant through software updates and specification developments
- Provide regular reporting to manufacturers to assist product development







BSI Certification

- SafeShark provide cyber security testing services carried out against international standards
- Backed with certification from BSI
- A consumer facing logo can then be used to provide assurance of cyber security best practice









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5 key takeaways

- UK and EU cyber security standards are evolving
- These represent a <u>minimum baseline</u> requirement for compliance and on their own are not enough to build trust around a product or brand
- Protect your customers, your business, your investors, your reputation, and your brand position
- <u>Prepare for the legislation</u> and increasing consumer demand before this becomes a business-critical issue
- Enhance your products and brand early on, building a reputation and trust by taking a hard consumer protection stance







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Thank you

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