



Applied Risk: IoT Security Assurance Services

The proliferation of connected devices

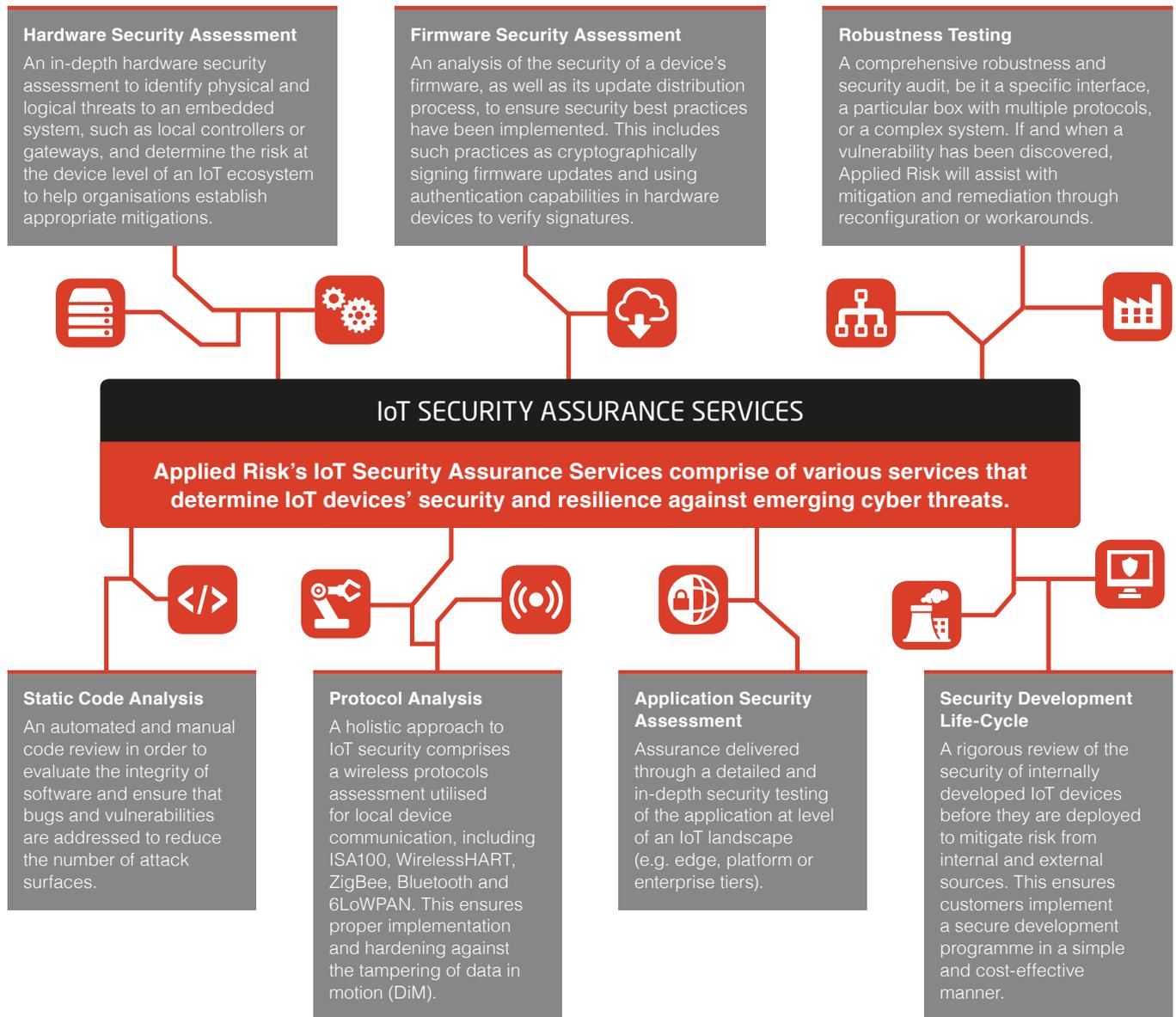
The Internet of Things (IoT), in particular the Industrial Internet of Things (IIoT), is becoming a business reality within various industrial sectors as equipment, such as sensors, gateways, processors and actuators, continuously communicate with each other or via the internet. As the potential application for these devices grows, IoT security is rising up the agenda, as is the requirement to manage and secure the exponential increase in data they are responsible for.

The IoT is very much at the core of applications and the mission-critical systems that operate within various environments. Considering most IoT products use the same embedded technologies and protocols, the effect in the case of these technologies being compromised could be significant, leading to major security and safety incidents. A clear business strategy that takes into account holistic product ecosystems including data privacy, remote access, cloud technologies and most importantly the 'security by design' concept is key for any industry utilising operational technology.

An introduction to the IoT Security Assurance Services

It is important for established vendors or system integrators to evaluate their Security Development Life-Cycle (SDLC) processes, their compliance with industry security regulations and data privacy requirements for components. It is also crucial asset owners and operators with multiple site locations assess the security of their operational technology (OT) infrastructure. Applied Risk's security experts provide the expertise and in-depth testing needed to enable businesses to launch secure industrial internet-enabled devices. This is achieved by reviewing the entire product ecosystem, from chip to code, while prioritising vulnerabilities so firms can successfully balance risk with time-to-market pressures.

A proliferation of security breaches is anticipated against assets. Investing in cybersecurity measures, such as Applied Risk's IoT Security Assurance Services, should therefore be seen as an enabler that will reduce the risk of compromise and downtime, improving efficiency.



ARE OUR IOT SECURITY ASSURANCE SERVICES RIGHT FOR YOU?

The overall goal of Applied Risk's IoT Security Assurance Services is to uncover software and hardware vulnerabilities and bugs, demonstrate components being protected from unintended or unauthorised access, change or destruction, and provide recommendations for mitigation. The benefits of this approach include:

- **Improving a device's security level**
The proliferation of internet-enabled devices has led to increased risk. Test by assessment ensures industrial assets are safe from attack
- **Business continuity**
Security breaches can lead to equipment downtime and profit reduction. Applied Risk helps organisations ensure continued operation, mitigating the risks of downtime
- **Enhancing business compliance**
Industry is set to face an increasing amount of regulatory burdens. Security testing and assessment helps organisations adhere to new directives
- **Maintaining a productive business**
Cybersecurity is a business enabler that will ensure improved ROI by increasing likelihood of correct business decisions

To safely embrace the business opportunities the IoT offers, it is imperative that the entire product is reviewed from the low-level chip design to the high-level application code. The Applied Risk IoT Security Assurance Services offer the means to successfully balance risk with time-to-market pressures in a cost-effective way.

Contact us to discuss strategies for securing your IoT devices.