

Industrial IoT Security Assurance



**Applied
Risk**





Applied Risk OT Solution Snapshot

As the level of connectivity and potential application for Industrial Internet of Things (IIoT) devices grows, so does the level of risk associated with introducing new devices which may establish additional entry points in your critical infrastructure.

The Industrial Internet of Things (IIoT), is becoming a business reality within various industrial sectors as devices, such as sensors, gateways, processors and actuators, continuously communicate with each other as well as with cloud-based services. It is essential to ensure your critical systems have been tested end-to-end for cyber resilience to minimise the chances of disruption to important production processes.






Our offering allows your organisation to uncover vulnerabilities in IIoT protocols, devices, servers, and software to protect components from unintended or unauthorised manipulation. Applied Risk will provide recommendations to effectively mitigate risk within end-to-end IIoT systems.

Key Benefits

-  Understand vulnerabilities within IIoT components, taking specific operational environments into account
-  Eliminate weak entry points early in the product development lifecycle to safeguard against attack
-  Assess devices against globally recognised standards such as the IEC 62443
-  Reduce vulnerabilities in new products and prevent unexpected costs and brand damage

Deliverables

Applied Risk will produce a detailed technical report which will consider the following:

-  Vulnerabilities discovered and proposed remediation actions
-  Secure Development Lifecycle - A review of internally developed IoT devices before they are deployed to mitigate risk from internal and external sources
-  Static Code Analysis - Automated and manual code reviews to evaluate integrity
-  Protocol Analysis - Wireless protocol assessments utilised for local device communication, including LoRA, Sigfox, LTE, ZigBee, Bluetooth and 6LoWPAN
-  Application Security - Detailed and in-depth security testing of embedded systems at application level

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