



evolve with us.

Pushing the limits: IoT & Cellular Security Testing

As a global engineering company with industrial and commercial steam systems and advanced electric thermal solutions deployed Internationally, Spirax-Sarco demonstrates its commitment to customer and data security with a robust and evolving security strategy and policy.

Spirax-Sarco worked alongside Mollis Group, a multi-cloud security consultancy, to supplement their efforts in critical areas by conducting security reviews to help and improve their Internet of Things (IoT) security.

The Challenge:

Knowing that their devices form critical components within their client's factories, Spirax-Sarco is committed to delivering secure engineering solutions to their customers. There is a compelling need to build better and more secure IoT solutions which can withstand ever-increasing modern security threats in the 21st Century.

IoT devices run on different operating systems with varying hardware specifications using other communication protocols. Mollis Group attacked the Spirax-Sarco cellular network infrastructure to help identify any weaknesses an adversary could access and exploit. This resulted in Spirax-Sarco having a hardened security posture, being more resistant to cyber-attack.

The Solution:

Our security experts and leading cellular test experts assessed the project. Applying a tailored approach and considering the specific characteristics of the tested IoT devices, the team developed custom tools whilst working alongside the client's in-house security team and device manufacturer.

- A streamlined scoping process. Creating a bespoke plan, ensuring the project met the strictest technical and ethical standards, and delivered on time and within budget.
- Offensive mindset. Replicating the approach of creative real-life adversaries.
- Device diversity. Testing was tailored to the individual device, in a secure faraday environment.
- Comprehensive skilled manual testing. Highlight security weaknesses to effectively mitigate threats.
- Privacy and ethical considerations. Ensuring no violation of any legal or ethical guidelines.
- Clear reporting and communication. Focussing always on more detail, proof of concept, impact and advice on remediation, and how to address and mitigate risks in the future.
- Informational. Improving the operational efficiency and security of the third-party IoT device and network infrastructure.

ABOUT THE CUSTOMER

Spirax-Sarco Engineering plc

Spirax-Sarco Engineering plc is a multi-national engineering group whose world-leading industrial and commercial steam systems provide the thermal energy and pumping solutions customers need to manufacture goods that the consumer market use daily, from food and beverages to medicines, paper, textiles, or car tyres.

Spirax-Sarco Engineering plc have a unique global coverage, with 146 operating units, a direct sales presence in over 67 countries and customers in 151 countries.



ABOUT US



Mollis Group is a multi-cloud security consultancy enabling companies to securely operate their business in the Cloud with open eyes.

Providing security guidance that's simple, consistent and transparent.

#evolvewithus.

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