bsi.

BSI testing and certification for smart and connected products for the fire industry

Build trust, manage risk and embrace opportunity

Build trust in your products – smart and connected products for the fire industry

The Internet of Things (IoT) can help transform our ability to prevent and fight fire, make buildings safer and ultimately save lives.

As the costs of connectivity and sensors fall, the use of IoT enabled devices is growing. In the fire industry the IoT is increasingly being recognized as a way to help improve safety by embracing the power of technology.

In the built environment, the increased use of IoT enabled devices and components for fire safety systems can help identify where a fire has started but it can also identify how quickly it will spread.

Connected fire fighter equipment can help transmit information such as the temperature or the location of a fire. It can also be fitted with cameras, enabling crews in the field to stream back vital information to a central command unit involved in coordinating a fire fighting operation.

And in the home, smart devices can link a fire alarm or a CO detector to other home appliances. If a fire or CO is detected by one of these devices, then ignition sources can be cut off preventing a dangerous situation from occurring.

However, all connected products, including those designed to help prevent, detect and fight fire are vulnerable to external threats. Cybersecurity presents a significant challenge. The increasing awareness of security problems can create a lack of trust in IoT connected devices and reduce business confidence in the return on investment of this technology.

At BSI we focus on delivering a testing and certification partnership underpinned by quality, safety, reliability and trust. As a global organization we have the scale and reach to support organizations large and small and in our dedicated state-of-the-art IoT laboratory our experts provide fast, effective testing for a huge range of IoT products.

BSI has a world-class cyber security capability, recognized by CREST global accreditation, combined with decades of experience in testing and certification of fire detection and suppression products. We help you embed trust and confidence in your customers by supporting you in ensuring your products are safe, secure and compliant.
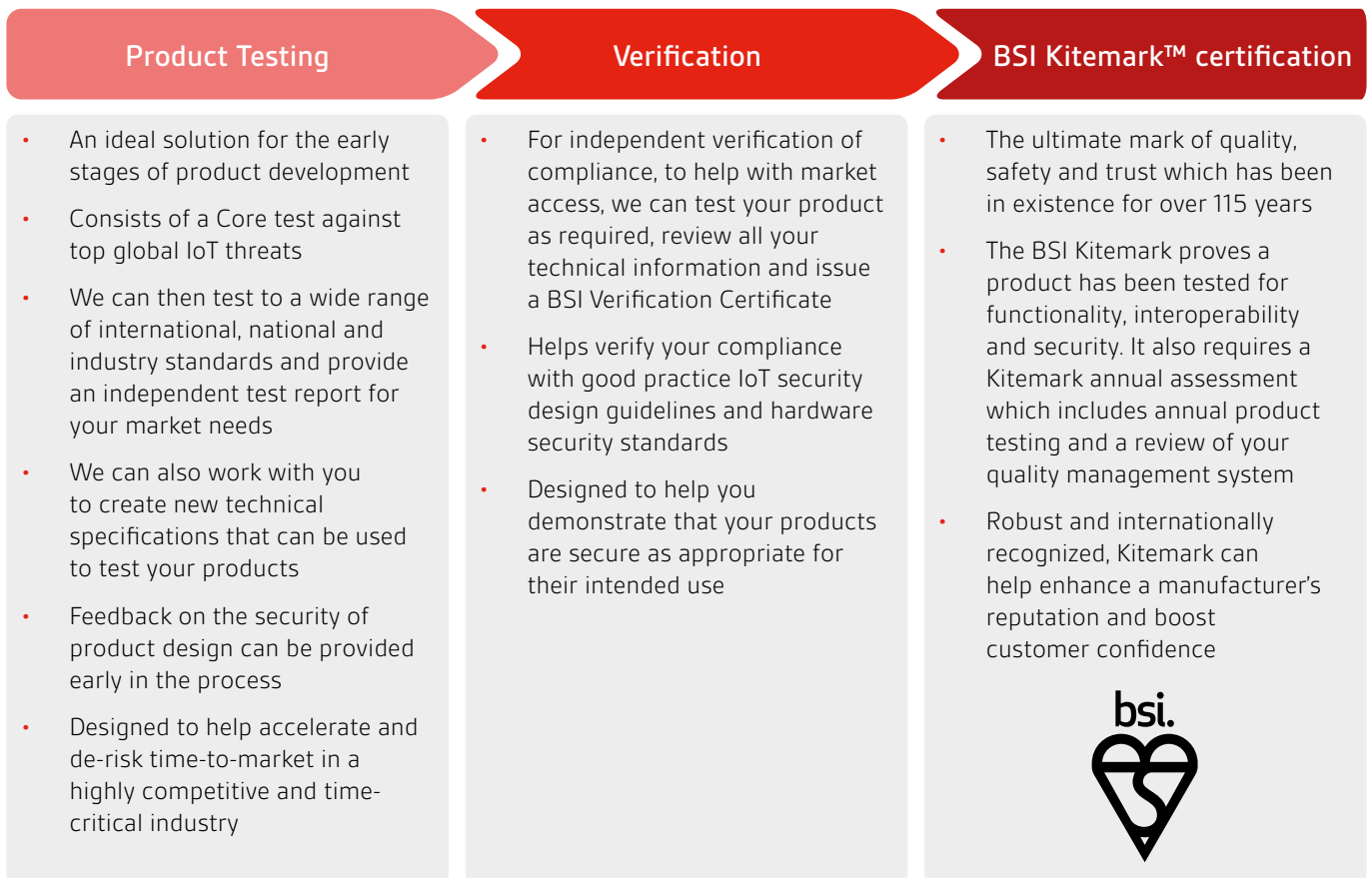
Services we offer

Our experts are passionate about ensuring products have been tested to the highest level, so that they will perform as expected and protect people, property and the environment.

By Royal Charter

No matter where you are on your product development journey, we can support you with a range of testing, verification and certification services for connected fire products that meet your needs. Our services can help accelerate and de-risk time-to-market in a highly competitive and time-critical industry.

Beyond our IoT testing capabilities our accredited testing laboratories have a comprehensive range of equipment for testing emergency lighting and all types of fire detection and alarms equipment such as fire detection panels, extinguishing panels, power supplies, various detectors, call points, sounders, visual alarm devices, voice alarm systems, loudspeakers, input/output devices, short circuit isolators and a wide range of domestic alarms including smoke, heat, CO, gas and combination alarms. From a compliance perspective BSI can help you make sure your products comply with the relevant product conformity requirements.

And as a Royal Charter company with a history and heritage of impartial and independent product testing and certification we are committed to continual improvement and we work with the highest level of integrity. Our history, heritage, expertise and experience are what make BSI unique.

Product Testing	Verification	BSI Kitemark™ certification
• An ideal solution for the early stages of product development • Consists of a Core test against top global IoT threats • We can then test to a wide range of international, national and industry standards and provide an independent test report for your market needs • We can also work with you to create new technical specifications that can be used to test your products • Feedback on the security of product design can be provided early in the process • Designed to help accelerate and de-risk time-to-market in a highly competitive and time-critical industry	• For independent verification of compliance, to help with market access, we can test your product as required, review all your technical information and issue a BSI Verification Certificate • Helps verify your compliance with good practice IoT security design guidelines and hardware security standards • Designed to help you demonstrate that your products are secure as appropriate for their intended use	• The ultimate mark of quality, safety and trust which has been in existence for over 115 years • The BSI Kitemark proves a product has been tested for functionality, interoperability and security. It also requires a Kitemark annual assessment which includes annual product testing and a review of your quality management system • Robust and internationally recognized, Kitemark can help enhance a manufacturer's reputation and boost customer confidence

bsi.

Benefits

Differentiate your products and gain competitive advantage

Reduce risk and show due diligence

Improve customer satisfaction

*Please note, connected fire products must still meet local regulatory requirements to be placed on the market such as CE marking for European market access.

Why BSI?

BSI works as a trusted, independent convenor of communities to shape, share, embed and support innovation in IoT and the safe and reliable use of 'smart' applications, data and devices. Through our community of IoT experts and organizations BSI is at the forefront of shaping new opportunities and creating industry-led best practice in IoT. That's why we're best placed to help you embed trust and confidence in your products.

Working with over 84,000 clients across 193 countries, BSI is a truly international business with skills and experience across a number of sectors including automotive, aerospace, built environment, food, and healthcare. Through its expertise in Standards Development and Knowledge Solutions, Assurance and Professional Services, BSI improves business performance to help clients grow sustainably, manage risk and ultimately be more resilient.

Our products and services

Knowledge

The core of our business centres on the knowledge that we create and impart to our clients.
In the standards arena we continue to build our reputation as an expert body, bringing together experts from industry to shape standards at local, regional and international levels.
In fact, BSI originally created eight of the world's top 10 management system standards.

Assurance

Independent assessment of the conformity of a process or product to a particular standard ensures that our clients perform to a high level of excellence. We train our clients in world-class implementation and auditing techniques to ensure they maximize the benefits of standards.

Compliance

To experience real, long-term benefits, our clients need to ensure ongoing compliance to a regulation, market need or standard so that it becomes an embedded habit. We provide a range of services and differentiated management tools which help facilitate this process.

Find out more
Call: +44 (0)345 0765 606
Email: product.certification@bsigroup.com
visit **bsigroup.com/iot**