



# Training course Focus on consumer IoT cybersecurity solutions

BRIGHTSIGHT IS PART OF SGS, THE WORLD'S LEADING TESTING,  
INSPECTION AND CERTIFICATION COMPANY.

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By **SGS**

# bright sight

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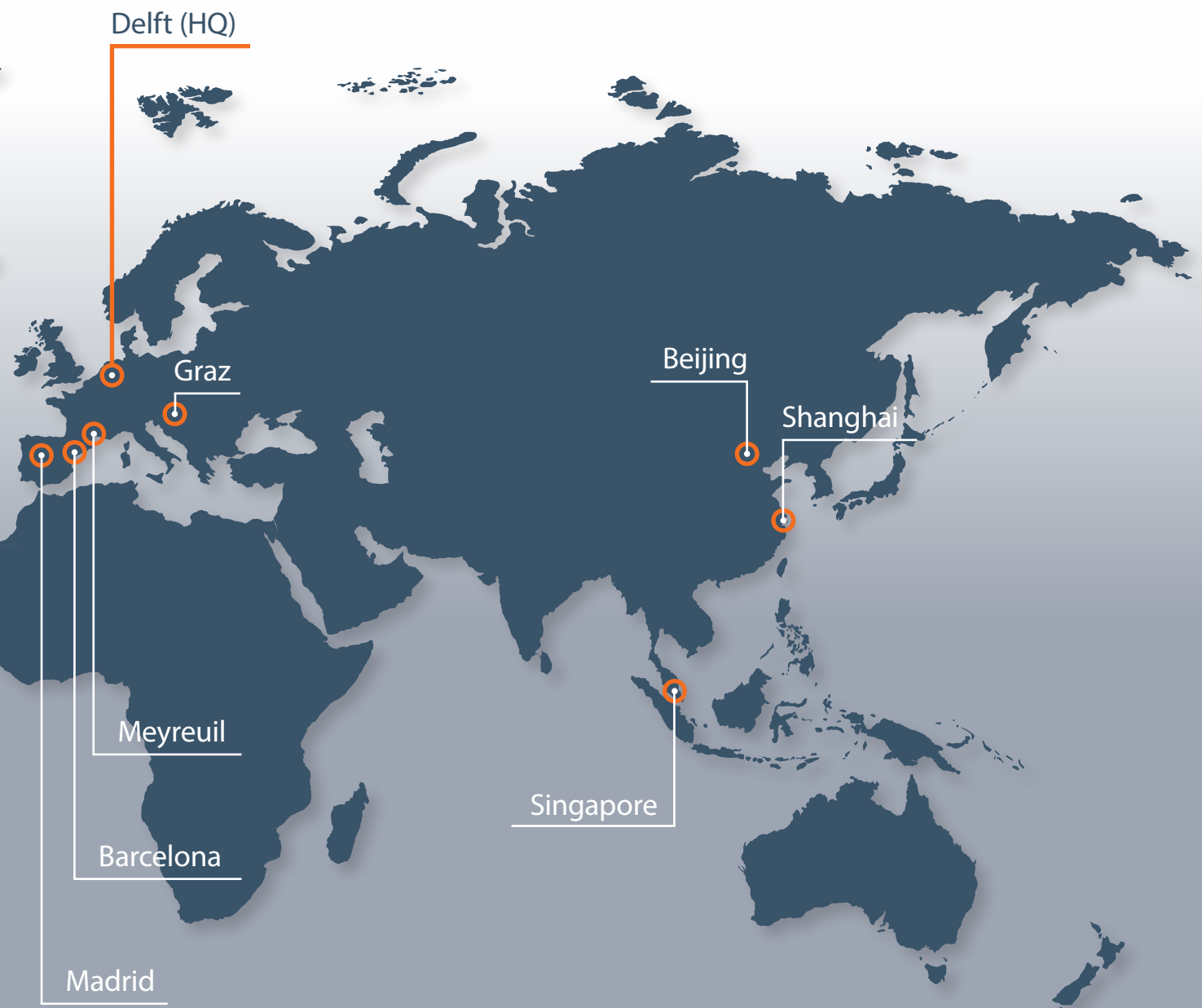
## OUR NUMBERS >

10

Locations around  
the globe

50+

Security standards  
and schemes  
recognitions



40+

Years of  
experience in  
security evaluations

220+

Security evaluation  
experts

700+

Security projects  
performed  
each year

# IoT consumer product cybersecurity, where we are now:

## DATA

The Consumer Internet of Things (IoT) – from wearables, to electronics, to home appliances – global market size is forecasted to reach about **\$154 Billion USD by 2028 compared to \$45 Billion in 2020** – dominated by home automation applications, growing at a CAGR of 16.69% from 2021 to 2028.

Products in the home can be exposed to more than **12,000 hacking attempts in a single week**, according to the consumer campaign organization.

## STANDARDS

EN 303645 is the most popular standard for IoT consumer security

- Potential candidate for EU CSA IoT scheme
- Adopted/adapted by 25 countries Worldwide

NIST 8259a and NIST 8425 is referenced in the US CSA consumer label program proposal.

CLS Singapore (Cybersecurity Labelling Scheme): based on 4 levels and aligned with EN 303 645. Mandatory for wi-fi routers.

SGS has two notified bodies.

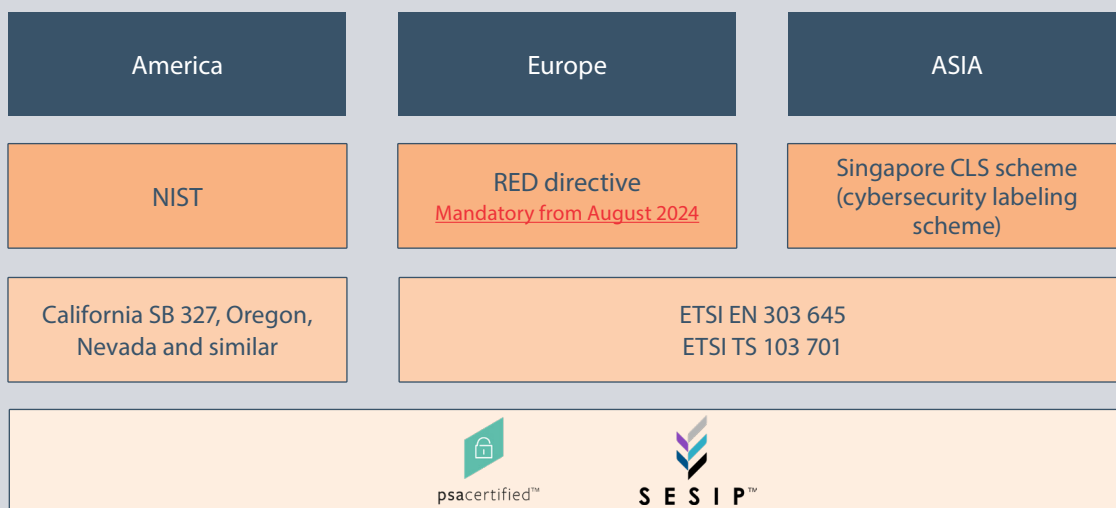
## UPCOMING

New RED Directive in force from August 2024. Article 3.3 sections d,e,f. will ensure network protection, protection of personal data and privacy, and protection from monetary fraud. These elements are essential to ensure protection against cybersecurity risks.

In the USA, The White House with NIST is working on a national cybersecurity labeling program for Internet-of-Things (IoT) devices for a targeted rollout in 2023.

# How to globally demonstrate your product security

## Map of global standards and private schemes



## SGS CYBERSECURITY MARK

Created to map the majors international and private schemes.

SGS Labs (ISO 17025) have multiple accreditation to offer you **1 single evaluation, multiple certifications**, no matter where your products are shipped.

**Easy approach:** List the standards you want to comply and decide the level of assurance.

**SGS Partnership:** Our experience to support you from the early stage with trainings, workshop, pre-evaluations.

# SGS Cybersecurity Mark: key specifications

ONE EVALUATION,  
MULTIPLE CERTIFICATIONS

FUTURE PROOF



Designed for **simplicity**



QR code: link to **official registration** with the ProCert public website



Up to **six** standards



Number of blocks: **assurance level achieved** for the standards



**Covers** IoT devices and components, such as: Smart speakers, cameras, printers, home appliances and smart lights



Validity: From **1 year to 5**. Follow-up is required



Product **family** approach



**Re-evaluation** may be required based on product changes

# SGS Cybersecurity Mark: understanding the levels



VERIFIED SELF-DECLARATION

SGS will check that your product docs completely addresses all necessary requirements.

1-2 weeks



VULNERABILITY SCAN

SGS lab performs a series of tests against publicly vulnerable databases.

2-3 weeks



CONFORMANCE TEST

SGS lab assess all requirements of standard, no compliance body is involved. You will obtain a report and a Certificate from an ISO 17065 Certification Body.

3-4 weeks



COMPLIANCE

SGS lab assess standards requirements and compliance body involvement. You will obtain a report and a Certificate from an ISO 17065 Certification Body.

4-5 weeks



IN-DEPTH TESTING

SGS lab assess all requirements of standard and certification body involved. You will obtain an In-DEPTH TEST REPORT and a Certificate from an ISO 17065 Certification Body.

5+ weeks

Product complexity may affect the final price. Follow-up not included.



# One evaluation, multiple certifications

California, Oregon State Bills	NIST	ETSI EN 303 645	PSA	RED for Europe	Singapore Lab Scheme (CLS)	SESIP	
							1
✓*							2
	✓	✓					3
			✓	✓	✓		4
						✓	5

\*Included: Based on ETSI / NIST full evaluation.

# SGS IOT-Security checked

## Approval Number: Test123



Product Category	Consumer IoT, Cleaning Robot	
Manufacturer		
Product Name & Version		
Unique Model Identifier	TEST1234	
Issuance	October 20, 2019	
Expiry		
Status	Valid	
Vendor Product Page		
STANDARDS & REGULATIONS	CORRESPONDING IOT ECO SYSTEM CHECKS	SGS TEST CAMPAIGN AND/OR CERTIFICATION SCHEME APPLIED
✓ UK Consumer IoT Law**	✓ IOS Companion App Vx.x	✓ SGS M3 Vx.x (or M2, ...)
✓ ETSI EN 303 645	✓ Android Companion App Vx.x	✓ LINC Certification Scheme (Cert No. xxxx)
✓ NISTIR 8259A	✓ IoT-Cloud Platform XXXX	
✓ SB-327*	✓ Other Items: xxxx	
*) California State Bill SB-327: The law is not explicit and leaves room for interpretation		
**) The UK Consumer IoT Law is still in preparation		

EXAMPLE



# SGS Cybersecurity Mark: sharing the assurance benefits

3RD PARTY  
EVALUATION

LOCAL LABS –  
PROXIMITY TO  
IOT PRODUCTION  
CENTERS

UP TO 5 YEARS  
VALIDITY

ADDITIONAL  
STANDARDS CAN  
BE ADDED

UNIQUE  
EVALUATION FOR  
AN EASY GLOBAL  
MARKET ACCESS

EASILY PUBLIC  
DATABASE ACCESS  
FOR END  
CUSTOMERS

CUSTOMIZED  
TESTING  
APPROACH BASED  
ON IOT PRODUCT  
COMPLEXITY

SGS BRAND  
RECOGNITION  
AROUND  
THE WORLD

HOLISTIC  
APPROACH TO  
DEMONSTRATE  
YOUR PRODUCT  
ASSURANCE

ISO 17025  
LABORATORIES

## SGS CYBERSECURITY MARK

1. — Pick the standards, regulations and requirements based on your needs
2. — Select the level of assurance you want to demonstrate
3. — Contact us at [brs.sales@sgs.com](mailto:brs.sales@sgs.com) with your product details!

BRIGHTSIGHT.COM

GET IN TOUCH FOR MORE INFORMATION

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