IOT SECURITY TRUST MARK ™

CERTIFICATION & LABELLING SCHEME

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INTRODUCTION

- The IoT Security Trust Mark™ (STM) is a certification and product labelling scheme established to test the validity of vendors claims of security functionality in Internet of Things (IoT) Products, in which Information Assurance (IA) is a major consideration.
- The objective of the Scheme is to meet the needs of Government and Industry for efficient, cost-effective testing of IoT Products security claims. The STM is primarily aimed at IoT Products to meet IA requirements at the higher impact levels, for purchase by central government and the wider public sector, particularly in the areas of consumer, transport, health, agricultural, industrial systems, and smart cities.
- Integrity, Neutrality, Scalability and Longevity are key tenants of the STM scheme governance structure;
  - The STM scheme engenders Trust by maintenance of clear Independence which it does through distinct functional, and organisational, separation of duties, roles and responsibilities.
  - It has to scale, the STM is a global scheme, it achieves this via the distributed governance structure.
  - The STM needs to endure, it has been designed to have no single point of failure or reliance on a single source of funding, sector or body, i.e., Government policy, resourcing and budgets etc.
  - The STM scheme uses globally accepted IoT Security Recommendations, Guidelines and Codes published by governments, and standards organisations such as ETSI, ENISA and NIST to set the security Baseline Requirements (BRs). Details; https://iotsecuritytrustmark.org/resources/

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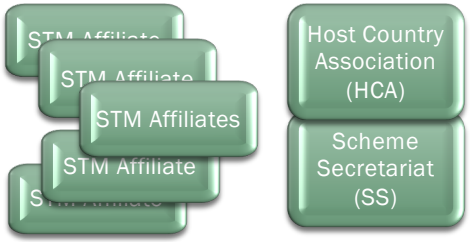
GOVERNANCE



Host Country Association (HCA)

Scheme Secretariat (SS)

Decision Authority (DA)

IOT SECURITY TRUST MARK™ CERTIFICATION & LABELLING SCHEME

Interim Accredited Test Facilities (iATFs)

Provisional Accredited Test Facilities (pATFs)

Accredited Test Facilities (ATFs)

Specialist Accredited Test Facilities (sATFs)

IoT Provider / Vendor | IoT Provider / Vendor | IoT Provider / Vendor | IoT Provider / Vendor | IoT Provider / Vendor ---------- IoT Provider / Vendor

IoT User / Consumer
IoT Buyer / Procurement

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PROCESS

STM Licensee
IoT Security Mark P/L

- *Appoints Scheme Senior Executive*
- *Licensor of STM to HCAs*
- *Licensor of STM to DAs*
- Hosts and publishes STM website and Evaluated Product List (EPL) *(including Summary (STR)*
- Manages STM documentation

HCA
Representation

- Markets STM
- Liaises with Government
- Liaises with Industry
- Raises STM awareness with consumers
- Acts as, or appoints, SS

STM Affiliates

- Supporters of the Scheme

SS
Administration

- Provides scheme administration for the HCA

DA
Technical

- Accredits ATFs, iATFs, pATFs, and sATFs
- Reviews Vendor Claims Documents (VCD)
- Reviews Test Reports (TR)
- Oversees technical function of STM
- Issues/Revokes Certificates
- Monitors Common Vulnerabilities and Exposures (CVEs)

ATFs
Evaluation

- Engage with vendors
- Assist in the creation of VCDs
- Performs Testing
- Issues TR, TRS, and Letter of Recommendation (LoR)
- Collects revenue

iATF

pATF

sATF

Vendor

- Funds the scheme *(<USD$30k <30-days for pass/fail, avg. $10k~$15k)*
- Engage with ATFs
- Selects and ATF, create an VCD
- Submit VCD to DA
- Display STM label on certified products

Consumer

- Requests STM from suppliers
- Seeks STM label on IoT products
- Prioritises/weights STM certified products when procuring
- Chooses products from the STM EPL
- Reads STRs

GLOSSARY

(i/p/s)/ATF ~ Accredited Test Facility (interim, provisional, specialist)
DA ~ Decision Authority
EPL ~ Evaluated Products List
HCA ~ Host Country Association
LoR ~ Letter of Recommendation
SS – Scheme Secretariat *(function of, or appointed by, HCA)*
STM ~ IoT Security Trust Mark™ Scheme
STR ~ Summary Test Report
TR ~ Test Report
VCD ~ Vendor Claims Document

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THANK YOU

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