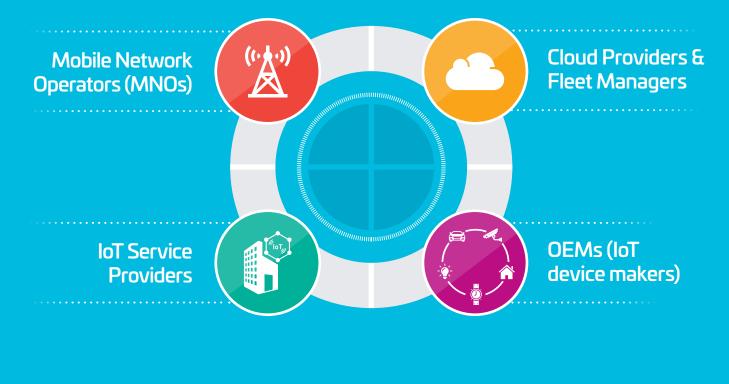
## Thales IoT SAFE delivers scalable cyber security for IoT

# Key Stakeholders for the IoT



### cellular connectivity **Smart automotive Smart home**

Four IoT use cases will drive growth in



Smart energy

Consumption monitoring

Energy efficiency

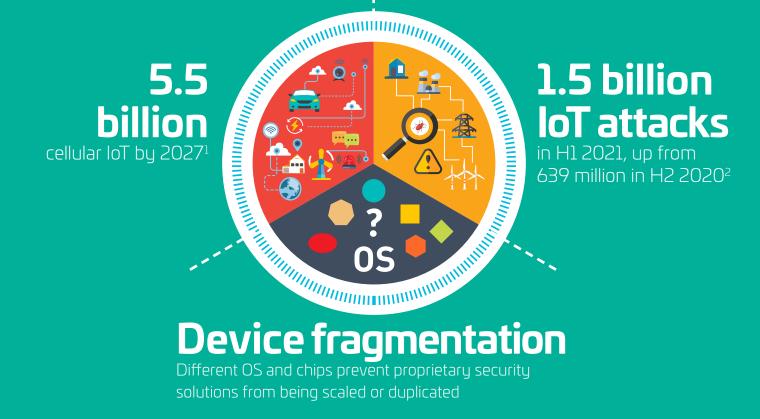


Smart healthcare

Smart metering



### The IoT combines a wealth of commercial opportunities with profound security challenges



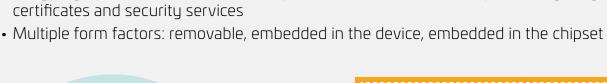
## IoT SAFE delivers scalable

IoT SAFE leverages SIMs and eSIMs, which are standardized and

• A cryptographic toolbox based on tamper resistant element stores private keys, digital

'security by design' for the IoT

IoT devices will count for billions and security becomes as important as connectivity



- Services Keys eSIM

security framework. Transport Layer Security (TLS) protocol

**IoT** 

of IoT SAFE?

Mobile Network Operators.

Hardware cryptographic toolbox

What is IoT SAFE?

field proven

• Billions of devices already in the field



**IoT Cloud** 

Digital Certificates

Private

Security

# devices

 Mutual authentication Data confidentiality Data integrity

What are the benefits for stakeholders

<<<<<>>>>>>>





Scalability

all APIs are

standardized:

all the players

"speak" the same

language

billions of SIM and

eSIM already deployed

and managed by OTA

(Over-The-Air) and

remote provisioning

platforms

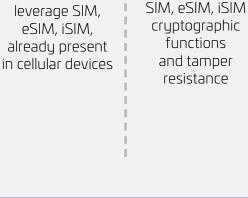


Bill of

materials

minimize the risk of

attacks



leverage



and overcome

fragmentation



touchless

provisioning

(with Thales

implementation)



**Service** 

continuity

security service

is independent

from connectivity.

Security service

continues even if the connectivity provider changes.

deploy and manage

the life cycle of their

fleets of IoT devices

everywhere,

regardless of device

fragmentation



is part of our





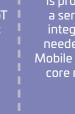
Service Providers



the scalability requirements of IoT security through: Field proven SIMs & eSIMs IoT security applet IoT SAFE Applet compliant with **GSMA IoT SAFE** 

credential

management, compliant with GSMA IoT SAFE







loT security.



**Contact us:** https://www.thalesgroup.com/en/dis-contact-us