

WELCOME!



TRUSTONIC

TEE Summit

George J Kanuck III, SVP Global Sales & Marketing

November 16, 2017

Level 39, London



Today's Agenda

10:00 : An Unfair Advantage- George Kanuck; SVP Sales & Marketing, Trustonic

10:40 : Application case study- Thomas Seyrat; GIE Cartes Bancaires

11:20: Application case study - Neil Williams, Rubean

12:00: Lunch

13:15 : Application case study - Rene Neitzel, Project Management Lead, Digital Key, VW

14:00 : Panel discussion - "Trends in Mobile Security"

14:40 : Vision for the future - Richard Hayton, CTO, Trustonic

15:15 : Tea / coffee

15:30 : Q&A / Next steps - The Trustonic Team

16:00: Close

In an increasingly connected world, app protection has never been more critical

2016

mobile devices become no.1 for digital service access

75%

mobile apps would fail basic security tests

24.7%

of mobile apps > 1 high risk security flaw



#1

of IT's weakest security links is on mobile devices

56%

of around all mobile devices are rated med-high risk

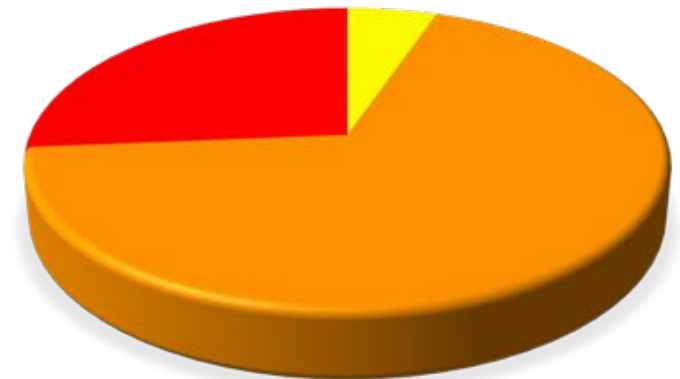
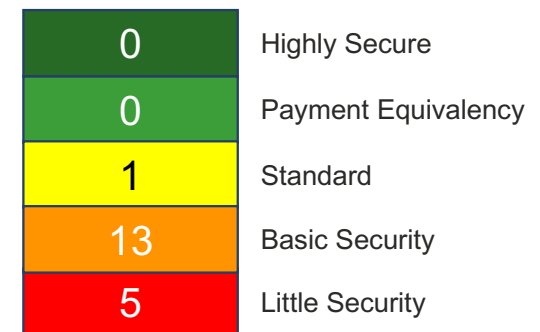
4 out of 5

Infections affecting a smartphone.

But, online banking apps are still largely insecure

In a recent study of the security of 19 mobile banking apps¹:

- Only one achieved a standard level of security, which is the minimum expected
- Thirteen had basic security
- Five had very little security at all



Part 1

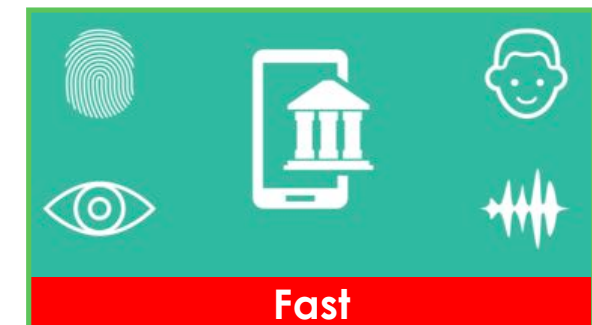
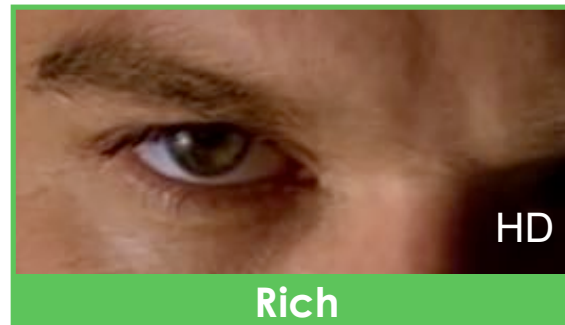
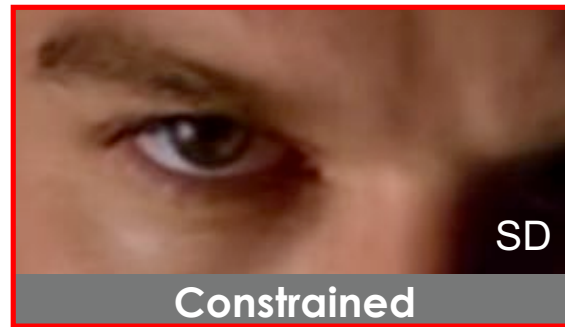
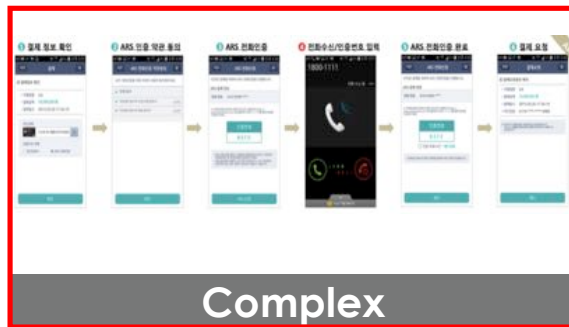
To embed the best **SECURITY** into the world's smart devices.

Part 2

To empower app developers to deliver
simpler, richer, *FASTER* services

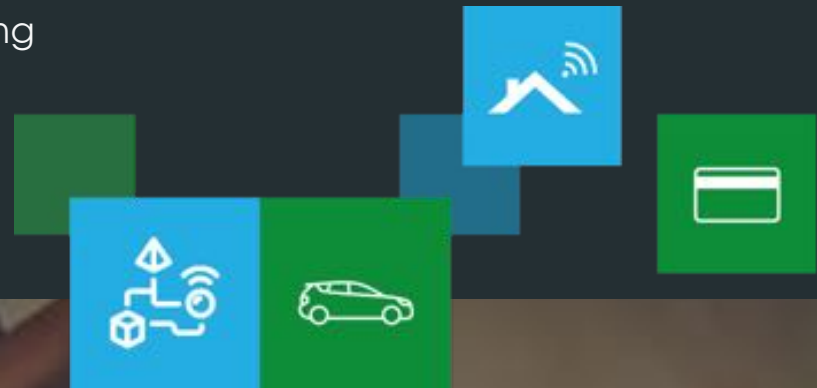
....because they're **SECURE**

Together, we make great experiences possible



Hardware Security – an Unfair Advantage

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What's in common with these brands?

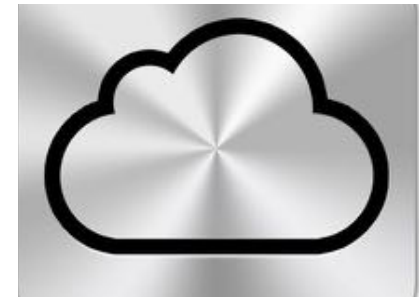




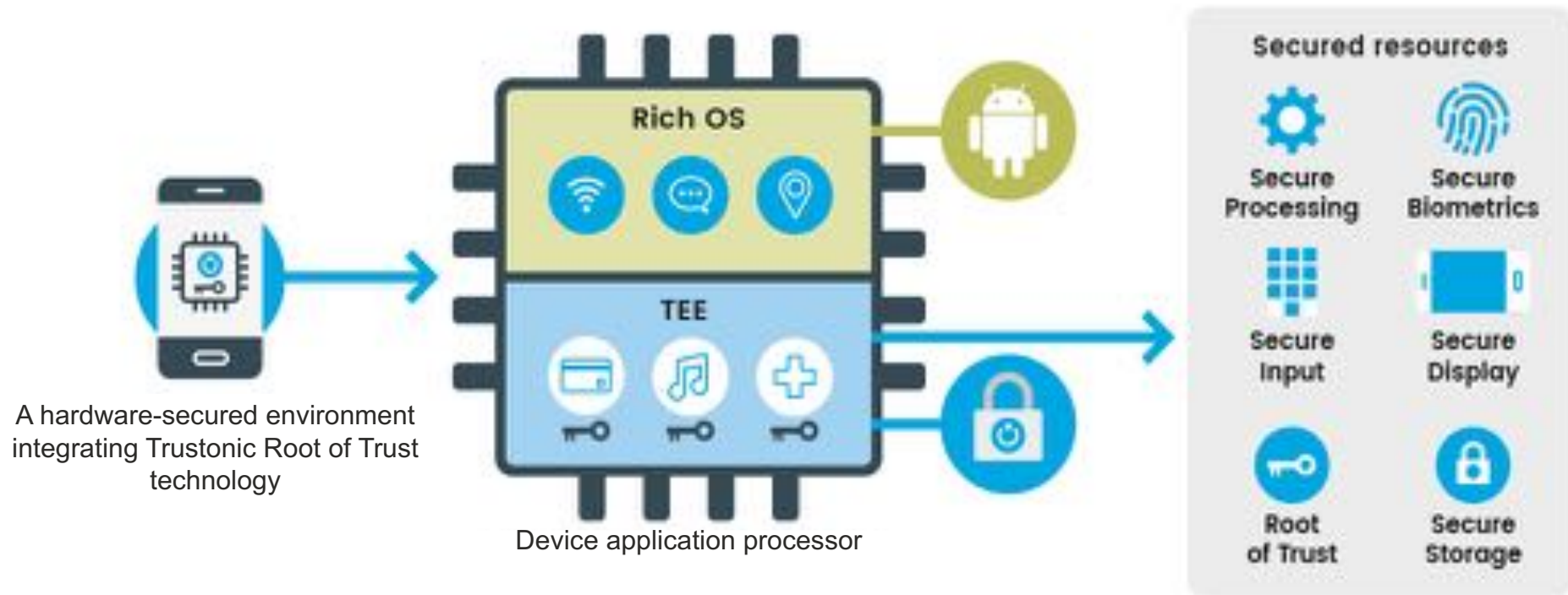
What makes the Apple security and experience special?

Apple uses hardware, software and policy to TIGHTLY CONTROL the linkage between:

- User
- Device
- Apps
- iCloud



How does Hardware Security work?



Common Mobile Security Myths

The Keystore is good enough

- FACT: The Keystore is limited to key storage
- FACT: Once the device is unlocked Malware could gain access to the Keystore
- FACT: You cannot protect executable code in the Keystore

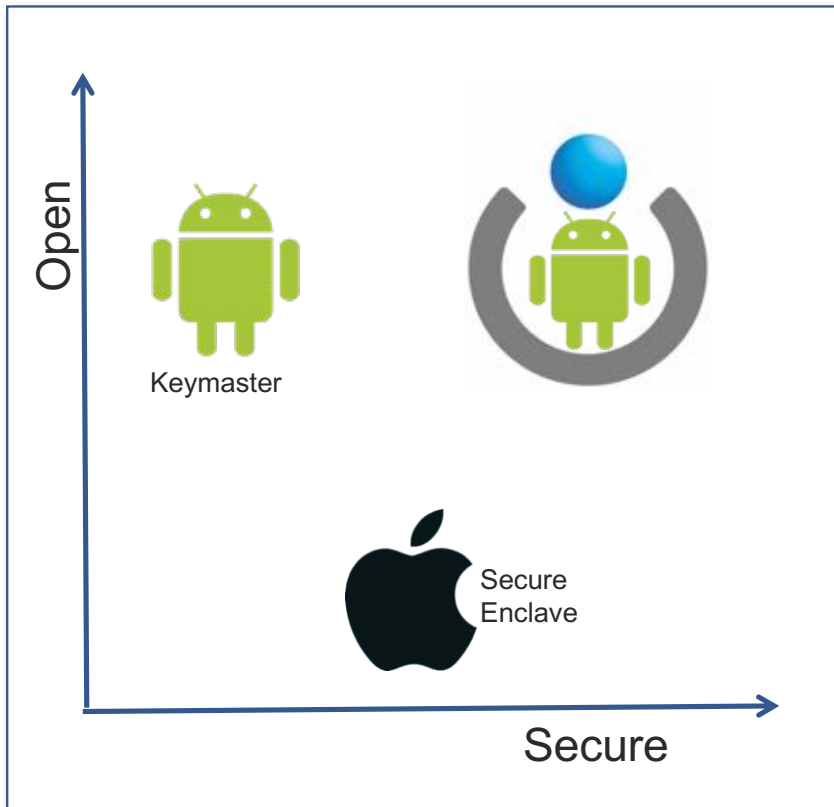
A Trusted Execution Environment (TEE) is just a big Keystore

- FACT: Some people are using it as a big Keystore.
- FACT: The TEE can protect and isolate your code as well as securing your keys, using the full power of the processor
- FACT: It can secure peripherals e.g. display, biometric sensors etc.

A Secure Element is necessary to protect high value credentials

- FACT: If you use diversified keys, a TEE is perfectly suited to protect high value assets against scalable attacks
- FACT: A TEE is more readily accessible to application developers and the business model is simpler
- FACT: The TEE is already used by OEM's to protect payment and biometric credentials and keys

Trustonic offers an Unfair Value Proposition



- ✓ More secure & more open than Apple
- ✓ More secure than Android + Keymaster
- ✓ Provide complete & proven security
- ✓ Provide flexibility and control
- ✓ Enable innovation through security

About Trustonic

World class investment

- Founded in 2012, with strategic investors ARM and Gemalto.

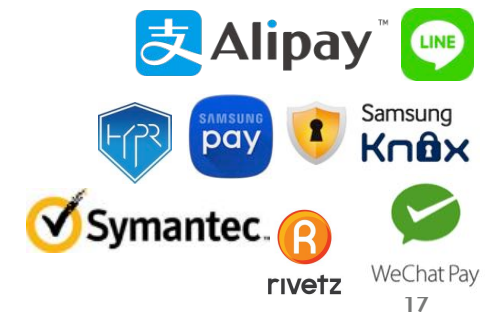


Trustonic has a dual mission

- To embed the best **SECURITY** into the world's smart devices.
- To empower app developers to deliver **simpler, richer, SAFER** services.

Credentials

- Trustonic protects over 1.2 billion smart devices worldwide.
- Recognized leader in application security.
GSMA 2016 Award Winner – Best mobile security solution.
- Strong, fast growing ecosystem.



What's unique about Trustonic

- Open, scalable access to the best and most innovative device security features.
- Used by many OEM's to underpin their own services.
- Used by consumer and enterprise service providers to deliver simpler, richer, SAFER services.



Good Security is HARD. We do it BEST. FASTEST.

- Trustonic has always been **first** to drive security innovations

First in the World	Main Partner / Actor	When
Secure premium content for mobile devices*	Netflix	2011
Government-based security certification**	ANSSI in France	2012
Open TEE on mobile	Symantec and Samsung	2013
GlobalPlatform compliance	GlobalPlatform	2013
Trusted user interface on mobile	Samsung Galaxy Note 4	2015
Use of TEE for mobile payment with biometry	Alipay	2015
Worlds 1 st Common Criteria Certified TEE	Common Criteria	2016



- Trustonic delivers the most innovative, **cost-effective** and **mature** device security solution
- Innovative platform features can then be used on supported devices to deliver the best user experience. Trustonic exposes these at scale in a **proven, secure way**
- A mobile secure OS is like Android: critical mass and a large ecosystem are **keys** to success

2 Pillars of Focus delivered via 1 Ecosystem

Secure the device

From Largest to the Smallest



1.2 Billion Devices. Mobile, Auto and IOT

Enhance the **experience**

Through unique, scalable App Protection



100+ Partners in Ecosystem

Thank you

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