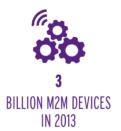




O1 OT

The M company











BILLION SMARTPHONES

By 2019, there will be 9,3 billion mobile telephones around the world, which 60% will be Smartphones.

Mobility is not just a fact of life,

it's a way of life





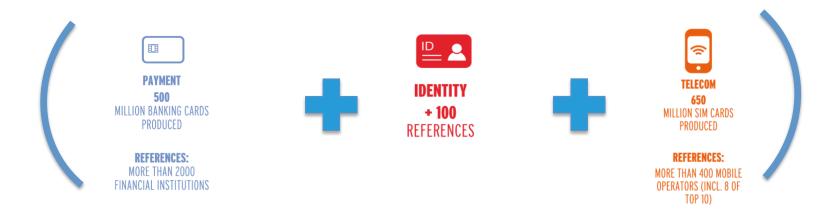


May 19, 2014

3



Leveraging our expertise in Payment, Telecoms and Identity

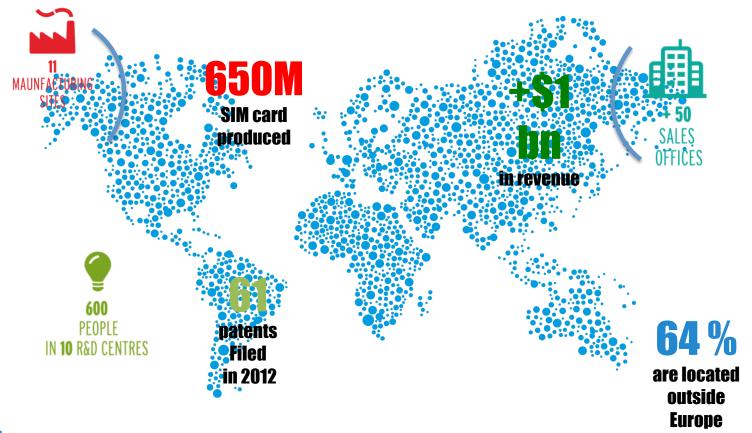




May 19, 2014



OT, an agile worldwide leader



May 19, 2014



We are transforming ourselves

Our environment is disrupted by the explosion in mobility

 We develop and manage new digital security solutions to protect digital assets of our customers and their end-users

 We don't just sell security anymore, we sell mobility and that's where the future market value lies

oberthur TECHNOLOGIES Mobile Operators 1515 vodafone Global companies Google amazon Device manufacturers hтс NOKIA SAMSUNG Sony Ericsson

Governments

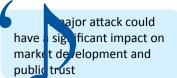
May 19, 2014

SECURITY IS CENTRAL AND ESSENTIAL





Mobile security can be achieved with security experts









Other such as Semiconductors companies



⟨(+)

Retailer, transport



02 MARKET

Security







MASSIVE HACK ATTACKS SHOW MAJOR FLAWS IN TODAY'S CLOUD SECURITY



110 million shoppers' data



Medical and financial information of 5.1 million individuals stolen



800 000 personal data stolen



Breach enabled monitoring of boardroom-level communications of more than 10,000 executives



40 million employee records stolen



Customers' phone numbers were logged and exposed to website publishers



UK database hacked, clients' e-mail addresses and names exposed

Linked in

Files containing
6.4 million
LinkedIn members
passwords were
found on
hacker websites



Exposure of names, passwords and other personal information of 35 million Koreans



PlayStation_® Network

77 million e-mail addresses and credit card data stolen

Source: BCG and others



 January, 2014: Hackers have posted account info for 4.6 million users of Snapchat, making usernames and at least partial phone numbers available for download.

"Our motivation behind the release was to raise the public awareness around the issue, and also put public pressure on Snapchat to get this exploit fixed. It is understandable that tech startups have limited resources but security and privacy should not be a secondary goal. Security matters as much as user experience does," the

hackers said in a statement to technology blog TechCrunch.









Data is "the new oil"





 Data protection is the 1st first problem of the Cloud





Mobile: legitimate device

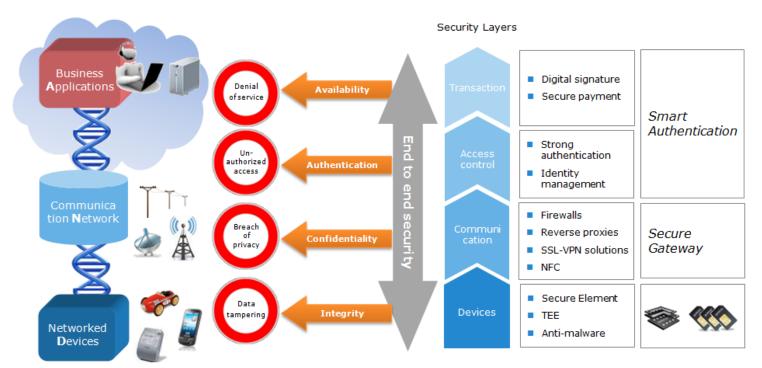
Security Ease of use



Ease of use, biometrics, contactless



SECURITY THREATS AND RESPONSES



End to end solutions should be secure by design





In order to play (safely)...



... An end to end offer is needed

SE to secure, store what is valuable <>>



 Solutions to update the toys, clean and change the sand





02 MARKET

Biometrics









2014: Over 90 million smartphones with biometric technology will be shipped

(source: Biometrics Research Group)

 September 13, 2013 - Mobile commerce will drive millions of biometric smartphone shipments, billions in transactions. The research consultancy expects that worldwide mobile payment transactions will reach \$250 billion in 2014, reaching \$750 billion in annual transactions with more than 700 million users by 2020.

A may c attack could have a significant in pact on market development and public trust

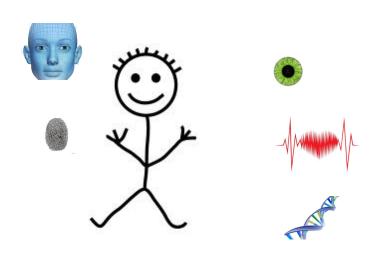
Worldwide Mobile Payment Transactions 800 700 600 500 400 300 201 2014 2015 2016 2017 2018 2019 2020 Copyright © 2013 Biometrics Research Group, Inc.



OT IS BIOMETRICS TECHNOLOGY AGNOSTIC

OT supports is agnostic: fingerprint (PIV), voice....

- Physiological features
 - Fingerprint
 - Face recognition
 - DNA
 - Palm print
 - Palm vein
 - Iris recognition
 - Voice recognition
 - Heart rate
- Behavioral features
 - Typing rhythm
 - Gait





OT is biometrics technology agnostic, but Voice is specific

- It only takes a microphone no need for a specific device type (i.e. Smartphone)
 - → Banks all over the world are interested!

- Easy Revocability Voice biometrics is a two-factor authentication: voice + passphrase
 - → just change the passphrase!
 - When you only have 10 fingers, 2 irises, etc...

- Strong Anti-Spoofing capabilities thanks to Agnitio's technology.
 - → A recorded voice doesn't work as there is no "blank voice". If there is a change in the chain (recorder, speaker), it is recognized



O3 MOBILE SECURITY

My voice is my password









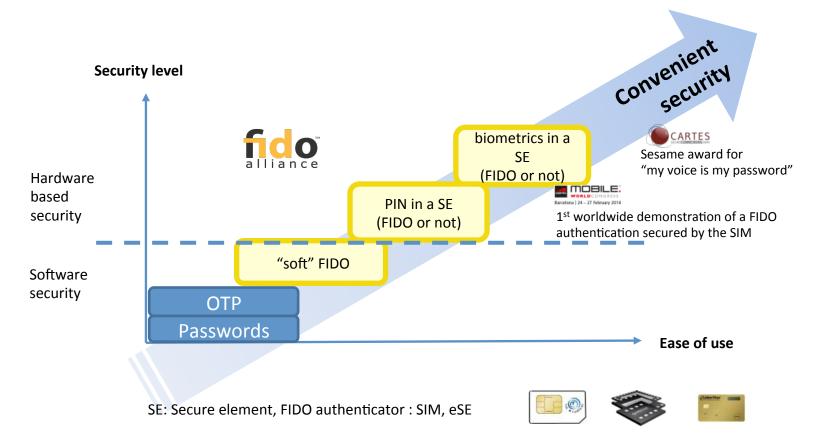
A hardware element







AUTHENTICATION SECURITY LEVEL: USE CASE DEPENDANT





- OT increases the FIDO framework security thanks to the SIM, the universal trustworthy element in the mobile phone
 - World's first Fido authenticator in the SIM: in demonstration at #MWC2014
 - Voice biometrics: "My Voice is My Password" Cartes 2013 Sesame Winner
 - Providing end-to-end security (server + client)



May 19. 2014



O4 conclusion



TRUST IS THE MOST IMPORTANT ONE QUESTION: WHO HANDLES THE RISK?















"Security as a service"



THANK YOU!