



WAVESTONE

Cybersecurity, the state of play

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Alert-Ransomware Cyber Attacks on ATM

© May 16, 2017 3:14 Pm

Britain admits to cyber-attack on Deutsche Telekom

Liberian telecoms company commissioned attack but had not asked for German firm to be hacked, 29-year-old tells Cologne court

Yahoo Hacked Once Again! Quietly Warns Affected Users About New Attack

Wednesday, February 15, 2017 | Mohit Kumar

Cyber Attacks: Emerging Threats to the 21st Century Critical Information Infrastructures

Cezar VASILESCU

Carbanak: How Would You Have Stopped a \$1 Billion APT Attack?

February 23, 2015 | By Limor Kessem

TECH CYBERSECURITY

A new ransomware attack is infecting airlines, banks, and utilities across Europe

by Russell Brandom | @russellbrandom | Jun 27, 2017, 10:01am EDT

Russian banks hit by cyber-attack

© 10 November 2016 | Technology

f t w e Share

European political parties left open to email-based cyber attacks



By Ian Barker

Published 4 months ago

Follow @IanDBarker

An increasingly visible **THREAT**

4 main MOTIVATIONS

IDEOLOGY

- Denial of service
- Ideological messages
- Information disclosure
- Identity theft

FINANCIAL GAINS

- Personal and financial data theft
- Theft of industrial secrets or strategic data
- Fraudulent transactions
- Ransom

DESTABILISATION

- Logical and/or physical destruction
- Strategic data theft
- Data disclosure

OBTAIN ATTACK CAPABILITIES

- Trusted sites / software trapping
- Network eavesdropping
- Security mechanism bypassing

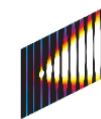


Shadow Brokers

EQUIFAX



BANGLADESH BANK
Central Bank of Bangladesh



SONY
PICTURES



belgacom

A rapidly GROWING CYBERCRIME

Increasing number of targets

- Digital transformation of companies
- Broad spread of technologies to the public

Accessible expertise

- Skills widely available
- Black Market of Attack Tools
- Mafia organisation

Low risks

- Anonymisation / limited audit trails
- Complex legal response

Important Profits

- Credit card data: \$3 to \$150
- Personal data: \$0.30 to \$2
- Business fraud/IP theft: thousands of \$



CYBERSECURITY

definitely became a C-level topic

HIGH IMPACTS

TRUSTED BRAND

REGULATORS &
RATING AGENCIES

PERSONAL
LIABILITY

The WAVESTONE approach



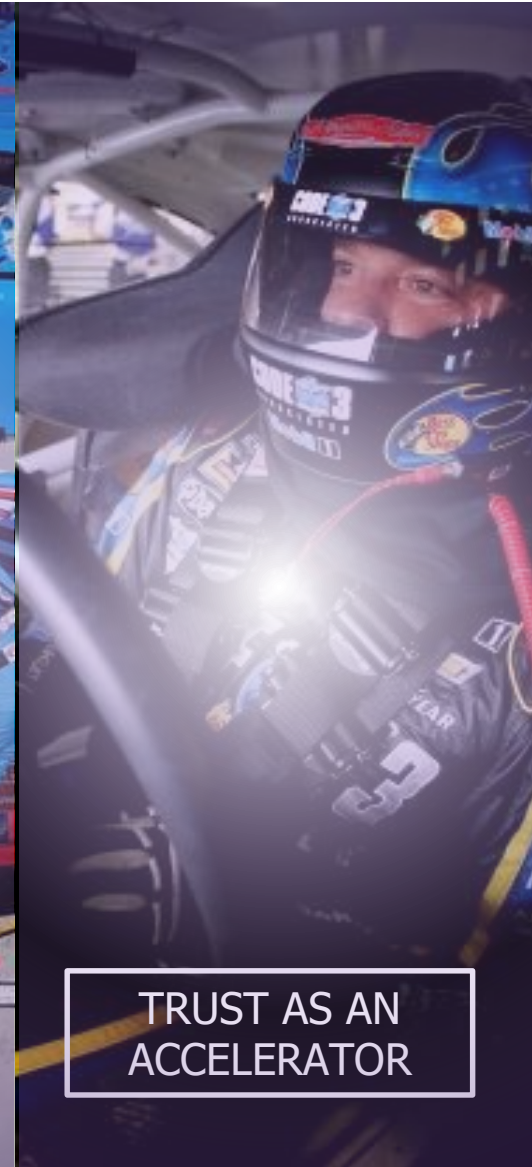
DIGITAL
RACE



THREATS



REGULATIONS



TRUST AS AN
ACCELERATOR

Win the **digital race** with **digital trust**

Digital trust is a **key business enabler**
to win the race for **digital transformation**



500+
Consultants
& Experts



1,000+
Engagements per
year in **20+**
countries



Our clients
Board, Business,
CDO, CIO, CISO,
BCM, DPO



PROVEN EXPERTISE

- / Digital Risk Strategy & Compliance
- / Safe Business Transformation
- / Security Design & Program Management
- / Identity, Fraud & Trust Services
- / Penetration Testing & Incident Response
- / Business Continuity & Resilience
- / Industrial Control Systems



ACTIONABLE INSIGHTS

- / Industry-specific risk mapping
- / AMT Master plan methodology
- / Start-ups & CISO Radars
- / ICS-Attacks demonstrator
- / CERT-W & Bug Bounty

Our unique blend of capabilities gives you a competitive edge



Expertise & Innovation

- / **Tooled consulting** for master plan definition, IoT, audit, incident response...
- / Recurrent invited speaker at leading **technical international conferences** (Blackhat, DEF CON...)
- / Mentor for cybersecurity start-ups for different incubators, publisher of the French and UK **start-up radar**



Business oriented

- / **Co-led engagements with business experts** from other Wavestone practices to bring more value
- / Current and wide-ranging thought leadership on **hot topics for specific businesses**: bank and fraud, industrial systems, digital compliance for consumer goods...



Independent & Trusted

- / In the trenches **since 1995** with a strong involvement in security communities
- / **Recognition of the authorities** through certification and participation to specific workgroups



PASSI qualification



ISO27001 certification for security audit

We leverage our strategic thinking to address client-driven topics



REGULATIONS (NIS/LPM & GDPR)

Find the appropriate perimeter to limit impact whilst ensuring appropriate level of security

Use it as a business differentiator



CLOUD & AGILE

Deployment is a reality, adopt a new security model to take it into account



CYBER RESILIENCE

Include a scenario of IS-wide logical destruction with crisis management but also new technological solutions



IoT & INDUSTRIAL CONTROL SYSTEMS

A breakthrough in industrialized protection systems with new secure and certified solutions to assess



IA & MACHINE LEARNING

Machine Learning is the new frontier to help fight fraud and cyberattack

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