
Review & strengthen cyber security governance in 2021

**Protecting data and communications in a
digitally-connected market**

**Alan Calder, Founder and CEO,
IT Governance**

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1. Understand the risk

2. Take action



Protect • Comply • Thrive

Introduction



Our Expertise,
Your Peace of Mind

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About us

IT Governance is a leading global provider of cyber risk and data privacy management solutions.

- We deliver projects all over the world to clients across the spectrum of cyber security and resilience, data privacy, incident response and business continuity.
- Our unique and unrivalled blend of products and services include bespoke and fixed-price consultancy, training, toolkits, software, staff awareness e-learning and penetration testing.
- We pride ourselves on our ability to serve an international customer base and deliver a broad range of integrated, high-quality solutions globally, while meeting the real- world needs of today's organisations, directors and practitioners.
- IT Governance is a subsidiary of GRC International Group plc, focused on delivering IT governance, risk management and compliance solutions.

Our Protect • Comply • Thrive approach is aimed at helping your organisation achieve resilience in the face of constant change.



Group overview

GRC International Group Companies



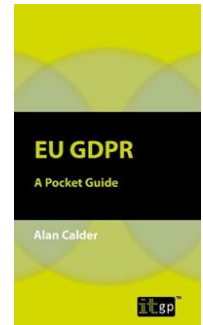
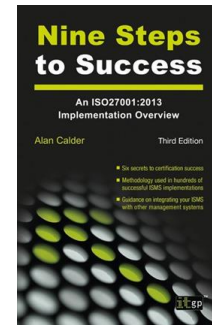
Introduction

Alan Calder, Founder and executive chairman of IT Governance



- IT Governance is the leading global provider of IT governance, risk management and compliance solutions.
- Author of *IT Governance – An International Guide to Data Security and ISO27001/ISO27002* and many other books on cyber security, compliance and governance.

IT Governance has a team of 35 experienced consultants, covering the entire range of GRC disciplines. We typically recruit additional consultants to meet specific project requirements and we are currently increasing the depth of our ICS/OT resource to meet the requirements of our growing CNI consultancy practice.



The threat landscape



governance

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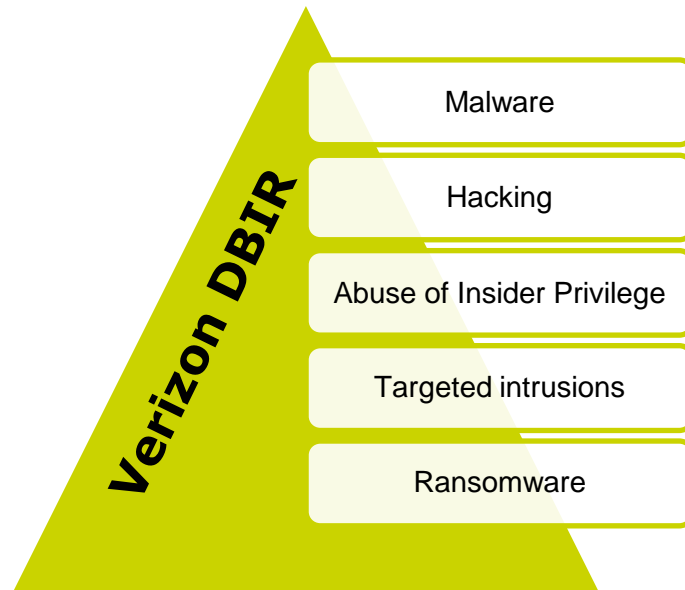
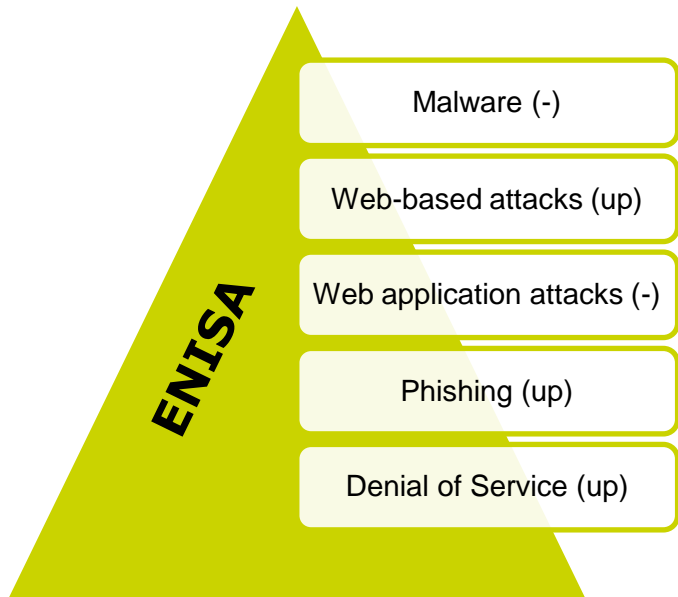
Threat landscape

The European Union Agency for Cybersecurity (ENISA) Threat Landscape Report 2020



Source: [ENISA Threat Landscape 2020 - List of top 15 threats — ENISA \(europa.eu\)](https://www.enisa.europa.eu/publications/enisa-threat-landscape-2020)

TOP 5 ATTACKS: 2020



Multiple vulnerabilities expose organisations.

Bad actors exploit uncertainty to attack weaknesses.



Phishing /
BEC attacks



Weak
passwords /
password
reuse



Malicious
software /
Ransomware



Patch
management



Cloud
vulnerabilities



Insider
threats
(Malicious
and
accidental)



Insecure
configurations

Ransomware



121 Million

Ransomware Attacks Recorded in H1 2020

(Source: Channel Pro)

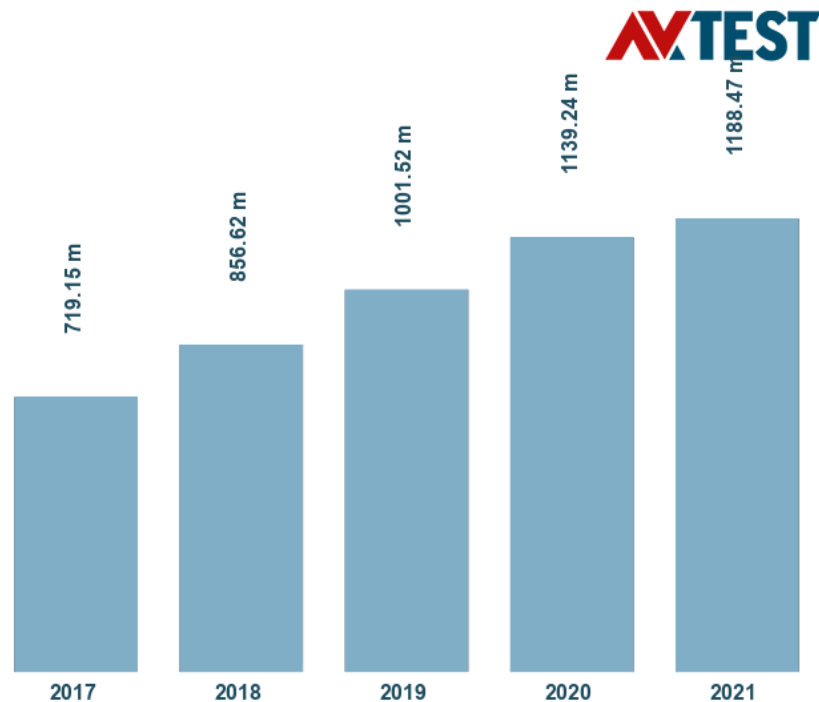
www.kratikal.com



Malware attacks

Total cost of Malware vs new Malware

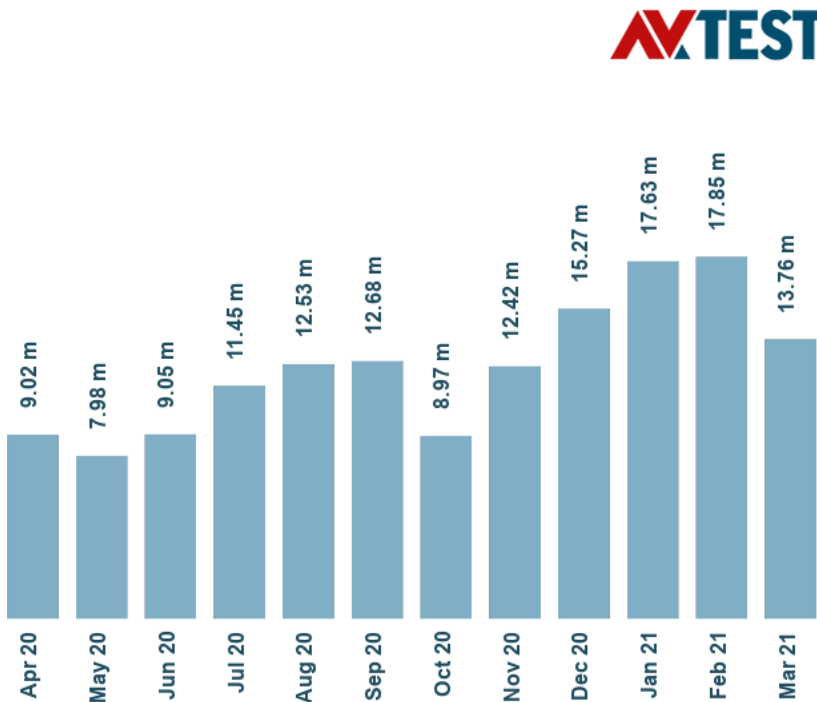
Total malware



Last update: March 22, 2021

Copyright © AV-TEST GmbH, www.av-test.org

New malware



Last update: March 22, 2021

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Major cyber attacks and data breaches



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Most organisations struggled in 2020



51%

of organisations have suffered from a ransomware attack.

Source: State of Email Cyber Security 2020 Report, Mimecast



46%

report having cyber security breaches or attacks in the last 12 months.

Source: Cyber Security Breaches Survey 2020



85%

received little or no security training to help make informed business risk decisions and mitigate risk.

Source: 2020 Cyber Threat Intelligence Report



52%

of all cyber attacks in March 2020 were finance-related

Source: Carbon Black



69%

have not changed the default password on their home Wi-Fi Router.

Source: Proofpoint 2020 State of the Phish Report

Major cyber attacks in 2021

In the headlines



Headline data breaches in 2020/21

Examples

blackbaud®



Spotify

Musicians had their Spotify pages defaced just a week after it suffered a credential stuffing attack which compromised over 300,000 accounts.



Twitter

In June, celebrity Twitter accounts were hacked, which resulted in 398 people being scammed out of more than £109,000 in Bitcoins.

T-Mobile®

T-Mobile

American telecommunications provider T-Mobile has disclosed a data breach after an unknown number of customers were apparently affected by SIM swap attacks.



Foxtons Group

Under scrutiny for downplaying the severity of a cyber attack that has compromised the financial details of 16,000 customers.

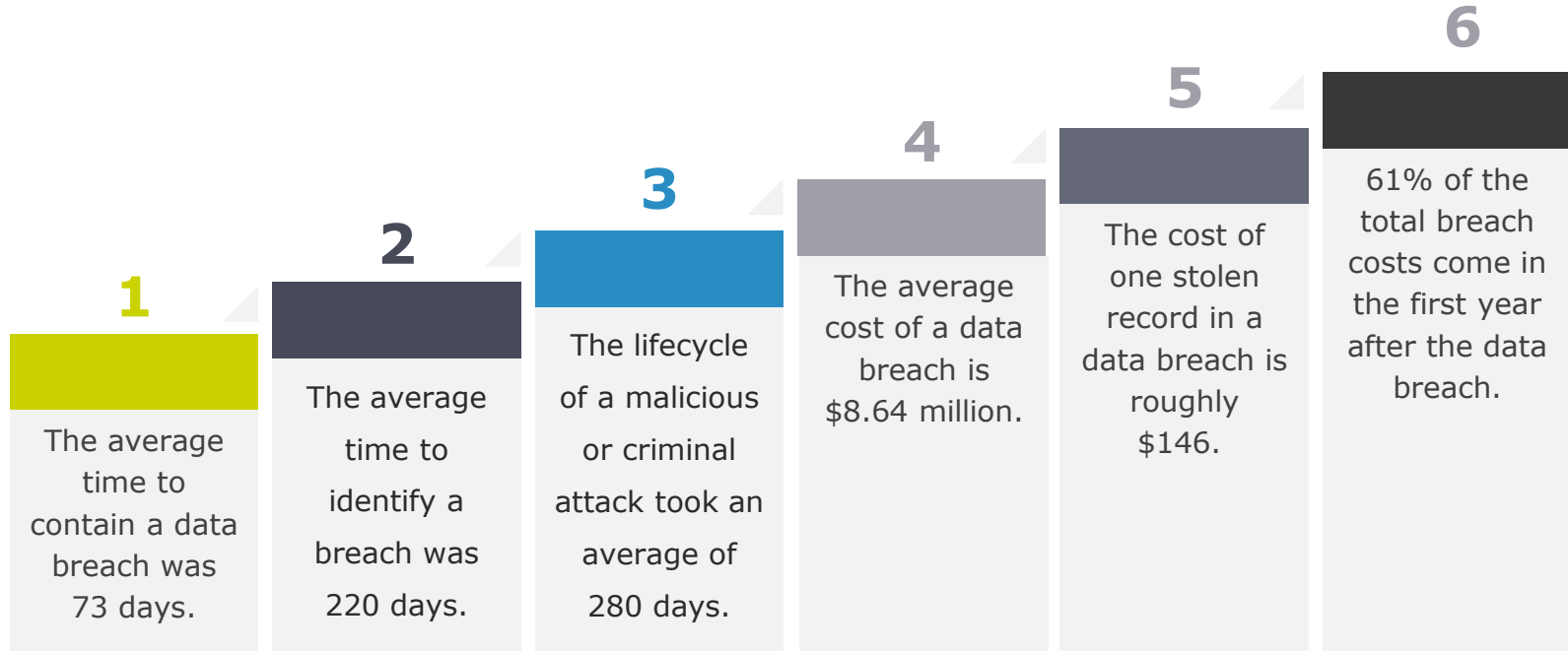


Hackers Break Into 'Biochemical Systems' At Oxford University Lab Studying Covid-19



Key data about cyber breaches

IBM Data Breach Report 2020



What about attacks on SMEs?



70% of cyberattacks
target small businesses

43% of SMEs have no
cyber security plan.

23% of SMEs have no
endpoint security.

32% of SMEs rely on
free, consumer-grade
cyber security
software.

58% of SMEs think
they're not a target
for cyber attacks.

Reality: SMEs are
under-protected,
under-resourced and
are easy targets!

Phishing and stolen
credentials the top
risks for SMEs.

Unpatched
vulnerabilities make
for easy targeting.

RUSI: Cyber Fraud
and 'Silent Stealing'

Cyber security and Privacy: Two Sides of the Same Coin



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Post Brexit, GDPR becomes two.

Which means?



UK is a Third Party to the EU – and vice versa

Trading into the EU requires compliance with both legal frameworks.

Trading internationally may have other privacy compliance requirements

Fines – up to 4% of global revenue – could be levied under both laws!

Cyber and privacy

Data protection due diligence and planning now part of deal prep.

Privacy

- Lawful basis for processing personal data?
- Legitimate interest tests?
- DPIAs?
- Special categories of data?
- Customer acquisition, email marketing lists (Articles 13 and 14)

Cyber security

- Penetration tests.
- Access and authorisation policies.
- History of breaches and incidents.
- Continuity plans.
- Certifications – Cyber Essentials, ISO 27001, Sector-specific (eg HIPAA)

The Board and Senior Managers: Managing cyber exposure



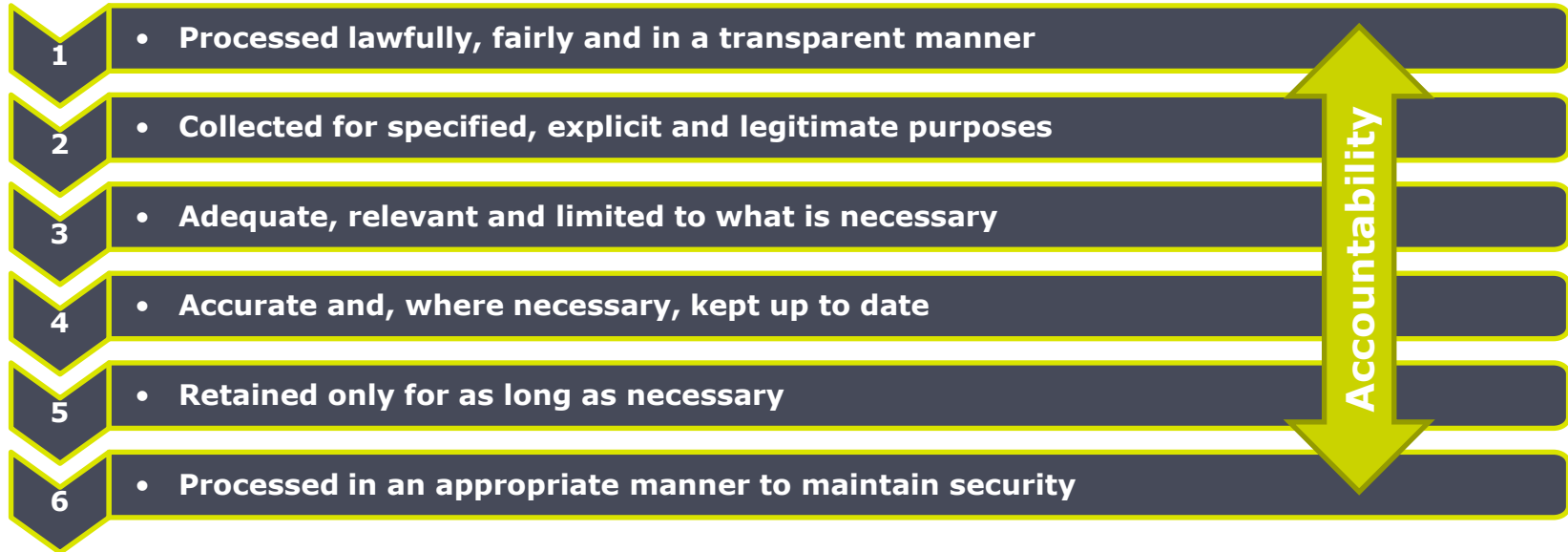
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Accountability under GDPR

What it means for the Board and Directors

- Article 5: *Principles relating to processing of personal data*
- "The controller shall be responsible for, and be able to demonstrate compliance with, paragraph 1 ('accountability'). "



Application of the principle of accountability

What it means for the Board and Directors

Governance: Board accountability

Corporate risk register
Monthly/quarterly reports on compliance and incidents

Nominated responsible director

Clear roles and responsibilities

Data Protection Officer
Head of Cyber Security

Compliance Framework

PIMS/ISMS

Cyber incident response

Cyber Essentials a minimum security standard

Certification and data seals (Article 42) – ISO 27001

Data Protection by Design and by Default

Data Flow Audits
Penetration testing
ISMS Audits

Data Protection Impact Assessments (DPIA) and Risk Assessments

'Apply technical and organisational measures'

'Taking account of the State of the Art'

Practical steps: what you should do now

Cyber and privacy risks co-exist. Attackers are sophisticated. Regulators and customers are unforgiving. Any organisation with assets is a target. You have to act before you are breached.



Recognise the extent of your risk

- Cyber and privacy risks co-exist. Attackers are sophisticated. Regulators and customers are unforgiving. Any organisation with assets is a target. You have to act before you are breached.



Update your privacy posture

- Adapt your documentation to UK GDPR and put in place appropriate processes for all extra-UK data flows.



Put a cyber security and privacy strategy in place

- Once you have accepted that there is a risk, put in place a cyber security and privacy strategy. If you don't have the resources internally to manage this, it is likely to be possible to outsource it and use the skills of expert professionals.



Train your staff

- All staff need to understand the new privacy and data protection laws, as well as being able to spot phishing and BEC attacks.

Staff awareness programmes

The human firewall to prevent cyber attacks and data breaches

Reduce the risk

Reduce vulnerabilities

Improve detection

Improve social
engineering
awareness

Improve
knowledge on how
to work securely

Recognise attacks

Know how to
report and
respond

Thank you



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