APPLICATION | BIG DATA

SENETAS

PROTECTING BIG DATA IN MOTION

Big Data describes the exponential growth in the collection, sharing, analytics and storage of multi-source information. In essence, it gives meaning to the seemingly random.

The richness of Big Data makes it appealing to cyber criminals, who are using ever-more sophisticated techniques to breach organisations and either manipulate this information or steal it, often for fraudulent use.

BIG DATA IN NUMBERS

1.7MB
THE AMOUNT OF DATA CREATED BY EACH PERSON, EVERY SECOND, BY 2020[2].

3m GB
THE AMOUNT OF DATA THE INTERNET RECEIVES EVERY MINUTE[1].

175ZB
THE PREDICTED GLOBAL VOLUME OF DATA BY 2025[3].

> 20bn
THE NUMBER OF DEVICES CONNECTED BY THE IOT BY 2020[4].

RISK FACTORS

- UNENCRYPTED HIGH-SPEED NETWORKS
- UNSECURE CLOUD COMPUTING PLATFORMS
- UNPROTECTED IOT DEVICES
- EMERGING TRENDS SUCH AS QUANTUM COMPUTING

THE THREAT LANDSCAPE

- STATE-SPONSORED ATTACKS
- GLOBAL COMPETITORS
- CYBER ATTACKS
- INJECTION OF ROGUE DATA
- USER ERROR
- ORGANISED CRIME

TYPES OF BREACH

Over **13bn** records have been lost or stolen since 2013, with data encrypted & rendered useless in just **4%** of breaches[5].

- 61% IDENTITY THEFT
- 17% FINANCIAL ACCESS
- 10% ACCOUNT ACCESS
- 6% NUISANCE
- 6% EXISTENTIAL DATA

HIGH PROFILE BREACHES

MARRIOTT HOTELS
The personal information, including credit card details & passport information, of all Starwood Hotels customers dating back to 2014 was stolen.

500M

LOCALBOX
Data from multiple sources – including data scraped from social media platforms – was stolen after a cloud storage repository was left publicly available.

48M

EQUIFAX
Sensitive information from a number of sources, including names, social security numbers & driver's license details, was stolen from one of America's most prominent credit rating agencies.

143M

CONSEQUENCES OF A BREACH

On average, it takes **197 days** to identify a breach and a further **69 days** to contain it[6].

- Intellectual property **theft**
- Privacy **breaches**
- Business **disruption**
- Financial **loss**
- Loss of customer **data**
- Loss of **reputation**

SOLUTIONS

CN SERIES
HARDWARE ENCRYPTION
FOR CORE NETWORK & IT INFRASTRUCTURE

- **Multi-certified** high-assurance encryption
- **Maximum performance** without compromise
- **Near-zero latency** and network overhead
- **Crypto-agile** and quantum-ready
- **State-of-the-art** encryption key management

CV SERIES
VIRTUALISED ENCRYPTION
FOR VIRTUAL CPE & VIRTUALISED WAN

- **Strong & effective** WAN encryption
- **Rapid scalability** across '000s of links
- **Flexible pricing** and licensing
- **Transport independent** multi-Layer encryption
- **Seamless integration** with SafeNet KeySecure

SUREDROP
ENCRYPTED FILE-SHARING
AVAILABLE ON-PREMISES OR FROM THE CLOUD

- **100% control** over data sovereignty
- **Unlimited** file size and type
- **Standards-based** encryption
- **Effortless** management & control
- **Votiro Content Disarm** & Reconstruction technology

DISCOVER MORE ABOUT SENETAS ENCRYPTION SOLUTIONS

PROTECTING BIG DATA IN MOTION | BIG DATA SOLUTION PAPER | INTRODUCING SENETAS E-BOOK

1. Domo, Data Never Sleeps 6.0, **2.** Domo, Data Never Sleeps 6.0, **3.** The Digitization of the World from Edge to Core - IDC, **4.** Gartner, **5.** Gemalto Breach Level Index, **6.** 2018 Cost of a Data Breach Study – Ponemon Institute.

Senetas CN Series hardware encryptors and CV Series virtual encryptors are distributed and supported internationally by Gemalto under its SafeNet brand; within the US Federal Government by SafeNet Assured Technologies, and throughout Australia and New Zealand by Senetas and accredited partners.

Senetas is a leading developer of encryption security solutions; trusted to protect enterprise, government, defence, Cloud and service provider data in over 35 countries. From certified high-assurance hardware, and virtualized encryption, to secure file sharing with data sovereignty control, all are based on the same crypto-agile platform and deliver security without compromise.

Asia Pacific Region	T: +65 8307 3540	E: infoasia@senetas.com
Australia and New Zealand	T: +61 (03) 9868 4555	E: infoanz@senetas.com
Europe, Middle East & Africa	T: +44 (0)1256 345 599	E: info@senetas-europe.com
The Americas	T: +1 949 436 0509	E: infousa@senetas.com

SENETAS

BDSI-IN0219