

PROTECTING CRITICAL NATIONAL INFRASTRUCTURE

TELECOMMUNICATIONS

Fixed, Satellite, Mobile, etc.

AIRPORTS

ENERGY GENERATION

Gas, Oil, Nuclear, Coal, Renewable

ENERGY DISTRIBUTION

Grid

HOSPITALS

Patient Monitoring, Healthcare Data

WATER

Hydro-Electric, Sewage Treatment Dams

TRANSPORT

Rail Network, Road Traffic Control

LAW ENFORCEMENT

Communications, Criminal Records

CCTV

Asset Monitoring, Border Control, Public Safety

FIRE & EMERGENCY SERVICES

Dispatch, Monitoring & Communications

THE THREAT LANDSCAPE

TERRORIST ATTACKS

STATE ACTOR HARM

CRIMINAL DAMAGE

HACK ATTACKS

INPUT OF ROGUE DATA

CONTROL SYSTEM HARM

TYPE OF BREACH

MALICIOUS OUTSIDER

1,269 incidents (72%)

ACCIDENTAL LOSS

326 incidents (18%)

MALICIOUS INSIDER

164 incidents (9%)

STATE SPONSORED

1 incident (<1%)

HACKTIVIST

4 incident (<1%)

SOURCE OF BREACH

IDENTITY THEFT

1,222 incidents (69%)

FINANCIAL ACCESS

274 incidents (15%)

ACCOUNT ACCESS

122 incidents (7%)

NUISANCE

52 incidents (3%)

EXISTENTIAL DATA

95 incidents (6%)

NOTABLE CYBER-ATTACKS



UK and Ireland energy networks suffer sustained cyber-attack.



Wolf Creek Nuclear Power Station suffers spear phishing attack.



Kiev power grid SCADA network hacked, resulting in blackouts.



WannaCry, Petya and NotPetya ransomware attacks.

CONSEQUENCES



ECONOMIC DAMAGE

CITIZEN HARM



BUSINESS DISRUPTION

NATIONAL SERVICES DAMAGE & DISRUPTION



SOLUTIONS:



CN SERIES

CERTIFIED HIGH-ASSURANCE & HARDWARE ENCRYPTION



CV SERIES

STRONG & EFFECTIVE VIRTUALISED ENCRYPTION

CORE IT & NETWORK INFRASTRUCTURE

LARGE-SCALE VIRTUALISED WAN

DISCOVER MORE



PROTECTING CRITICAL INFRASTRUCTURE



CRITICAL INFRASTRUCTURE CASE STUDY



CRITICAL INFRASTRUCTURE SOLUTIONS PAPER

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.

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