



BY
PIE SECURITY

CASE STUDY PUBLIC SCHOOLS

*Keep Sensitive Data Communicable
and Secure in a Trusted, User
Friendly, and Cost-Effective Way*

Overview

DATA SECURITY FOR PUBLIC SCHOOLS

350 SCHOOLS ACROSS THE US WERE SUBJECT TO DATA BREACHES FROM CYBER ATTACKS IN 2019

This number is only the publicly reported total, and there is no doubt that the figures are much greater and have grown since Covid-19 forced an increase in home working and homeschooling.

However, the actual number of schools targeted could be as high as 121,000.

While unlawful use of computer systems, and accidental leaking of information are two vectors that have increased in recent times, it still remains (as of 2020) that 95% of targets that became breaches were caused by human error, and 88% of those breaches were via email-based phishing attacks.

So, again, it is likely that email is the predominant vector of malware transmission and data leaks in these cases.



“Cybercriminals are particularly fond of targeting government agencies and school districts, which are generally less likely to devote the financial resources necessary to guard against attacks.”

- Holly Hubert, founder of GlobalSecurityIQ

Our Solutions

CHALLENGES & HOW WE CAN HELP

DIGITAL RISKS FOR SCHOOLS

- Interception of external communication to clients,
- Interception of internal communication,
- Inability to securely communicate with external businesses,
- Compromising of PCI/PPI information through the reception and use of phishing links.



HOW PIE CAN HELP

At Pie we offer a comprehensive list of proactive, preventative, and inexpensive solutions to digital security and privacy:

EMAIL HYGIENE

Last year 93% of organisations were targeted by ransomware. Over 60% of that malware was spread via phishing emails, a number up from 48% in 2018. Our email hygiene system proactively stops spam, viruses, and malware from hitting your inbox in the first place.

S/MIME & TLS ENCRYPTION

For business support and admin teams communicating with external businesses (such as payroll, HR, etc) it is essential to secure any sensitive business, financial, or personal information. We use S/MIME encryption as standard, which can encrypt sensitive information with no user input.

Our Solutions

CHALLENGES & HOW WE CAN HELP

DIGITAL EMAIL CERTIFICATES

An abundance of PII and PCI data is shared between schools, their staff, parents, children. Business support, banks, etc. The Digital Email Certificates authenticate this communication to avoid miscommunication and the need to personally validate invoices and legal documents.

WEBMAIL AND PDF ENCRYPTION

As well as encrypting data leaving the organisation, it is crucial to support inbound encryption for data acquisition. Using the Web Portal encryption shows those connected to the schools that you take GDPR and Privacy by design seriously; and secures this sensitive communication, attachments, and links within password-protected PDF. This method is fantastic for sharing sensitive information with parents, who are unlikely to have an encryption system. In case of a breach, this information would be safe 'at-rest' as well as 'in transit'.

CIPHERMAIL QUARANTINE

Reduces the risks of data breaches, and fines, regarding sensitive information through inbound email. If a parent were to mistakenly send you their social security number and bank information via email, our quarantine would pick this up, and either redact the information or keep it stored off-premises, to keep your school free of this personal information.



About Us

WHY PIE SECURITY

At Pie Security, we understand that email security is more than just scanning/filtering your inbound email for known spam and malware.

PieSecurity will engage with your organisation to understand what email communication and associated data are confidential, sensitive or restricted due to data law, and design a solution to meet your security, privacy and compliance needs. This should be part of your Data Privacy Impact Assessment (DPIA) when reviewing all data acquisition and data departure on the network.

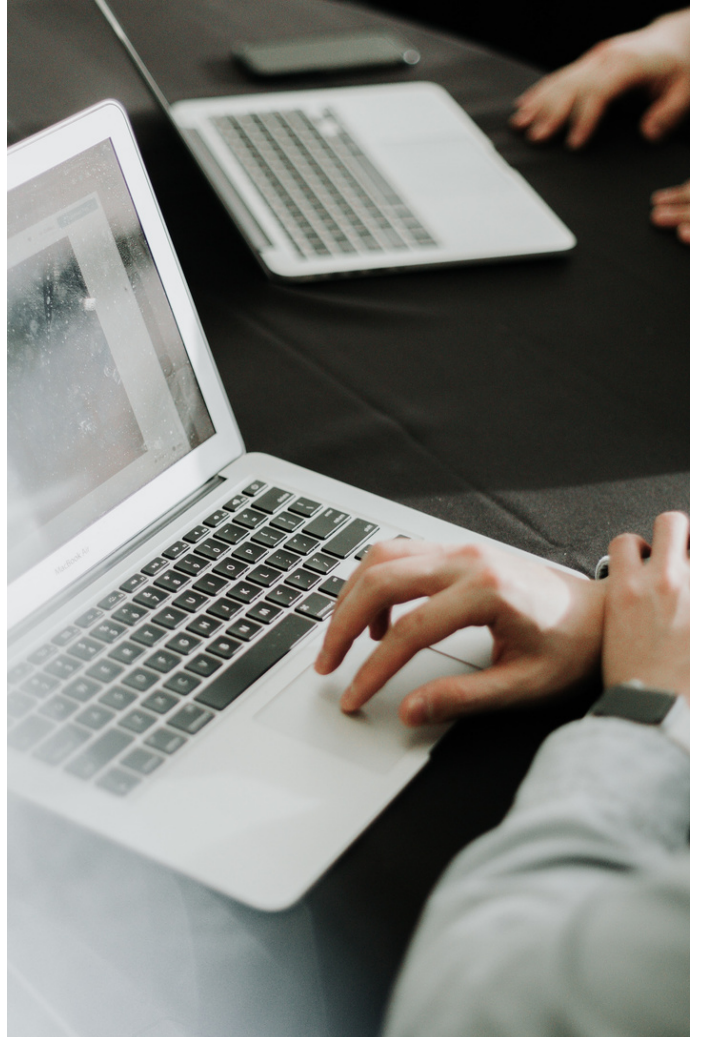
This creates higher data visibility as well as improved data management, creating privacy by design.

WE'RE
PASSIONATE
ABOUT ONE
THING...

YOUR EMAIL SECURITY

Our founders, with 75 years of combined industry experience, provide leading email hygiene and encryption solutions for business, education and government to help them comply with EU & UK privacy laws and GDPR.

And the great thing is, our email solutions work in tandem with your existing email system provider, whether that be from Microsoft, Google or any SMTP compatible email solution.



PIE SECURITY

Make your email security and privacy
as easy as - well, pie.

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