

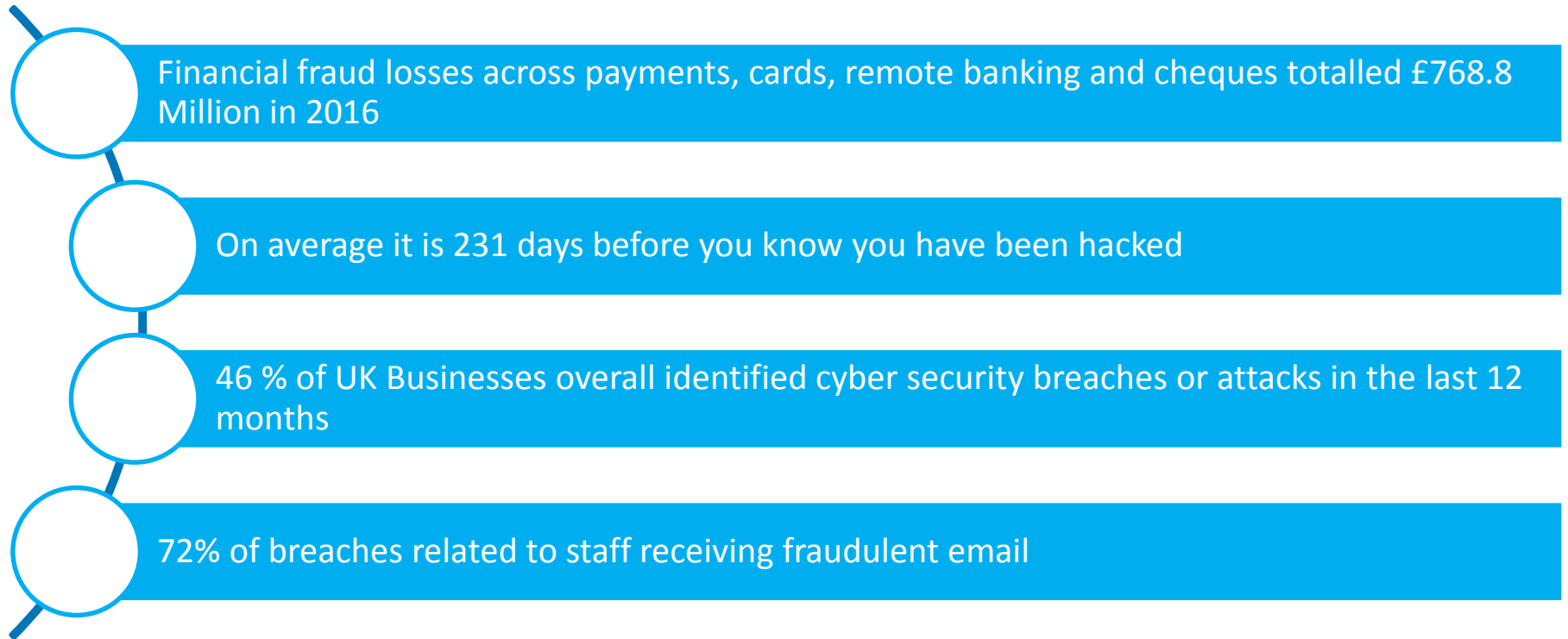


Know your cyber and fraud risks

March 2019

Unrestricted

Setting the scene



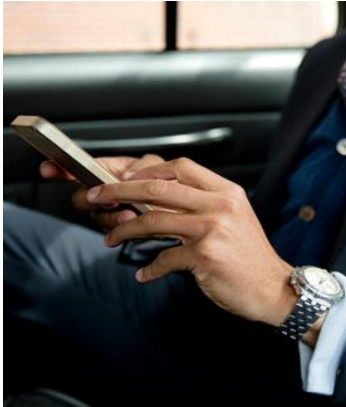
Sources:

https://www.financialfraudaction.org.uk/wp-content/uploads/2016/07/fraud_the_facts.pdf - Relates to point 1

https://www.financialfraudaction.org.uk/wp-content/uploads/2016/07/FFA_Annual_Review_2017_WEB.pdf - Relates to point 2

https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/609187/Cyber_Security_Breaches_Survey_2017_inforgraphic_general_business_findings.pdf - Relates to points 3 & 4

Social engineering



Social engineering is one of the most prolific and effective means of gaining access to secure systems and obtaining sensitive information, yet requires minimal technical knowledge. Your people are your biggest weakness when it comes to cyber security.

“The manipulation of situations and people that result in the targeted individuals divulging confidential information”

CIFAS fraud prevention agency

The scammer's toolkit

Create a sense of authority

We tend to comply with authority rather than follow our conscience.

Create a sense of consequence

We tend to be loss-averse and will seek to avoid a negative consequence.

Create a sense of urgency

We make worse decisions under stress and time pressure

Appeal to our vanity or greed

We struggle to resist opening that email attachment which promises to tell us how much our colleagues get paid.

Phishing/spear email – what to look for

Date: Wed 19/06/2016 10:14

From: ebuy services

Adjustments to your account settings!!!

Account Status Notification

Dear Customer,

We are contacting you to inform you that our Customer Liaison Team has identified changes to your account. In accordance with our User Security Policy we are contacting you to ensure that your account is not fraudulently accessed. Therefore you must access your account using the link below to reactivate your account immediately.

YOU WILL NOT BE ABLE TO ACCESS YOUR ACCOUNT UNLESS YOU DEACTIVATE THIS BLOCK NOW.

Please log in by clicking the link below:

<https://www.ebuy.com/verify/idp.login.html>


Thank you for your help.


Security Officer
Ebuy Online



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<http://www.phishing-scam.com/ebuy.com/verify/idp.login.htm>
Ctrl+Click to follow link

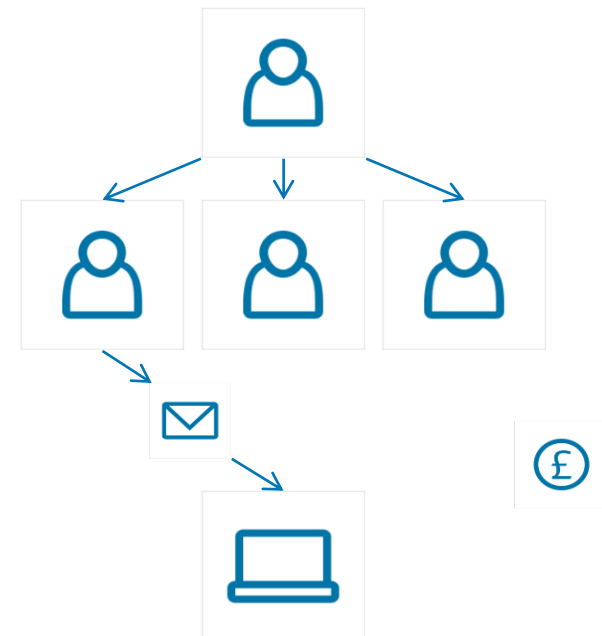
Mon 24/08/2015 17:02

 david.smitth@company.co.uk
Finance info you should see

To: 

Message  Financial details.pdf (83 KB)  Figures for quarter 1.xlsx (11 KB)

Please take a look at these figures.



Social engineering

Sometimes the information we post onto social media can appear harmless and innocent, but it can often be used by cyber criminals to form part of an attack.

What information can we learn about someone from the post opposite? How could this information be used against us?

Hey @BudgetAirLineUK – your gate at Manchester Airport should have opened 15 minutes ago. Whats happening?
#NotGoodEnough

Social engineering

Subject: RE: Your Delay at the Gate

From: info@BudgetAirlineUK.com

To: john.smith123@email.com

Dear Mr Smith,

We are sorry to hear that you were delayed at the airport when checking in at Manchester Airport on the 19th of October, for your flight number BUDNY1910 to New York. We hope it didn't spoil your trip!

As an apology Budget Airline UK would like to offer you a discount of 50% of your next flight, as well as complementary First Class upgrade.

All you need to do is fill in the form by clicking the link below, and we will send out the voucher codes to you.

<http://complaints.budgetairlineuk.com/voucher/50percent.html>

We hope to see you again soon

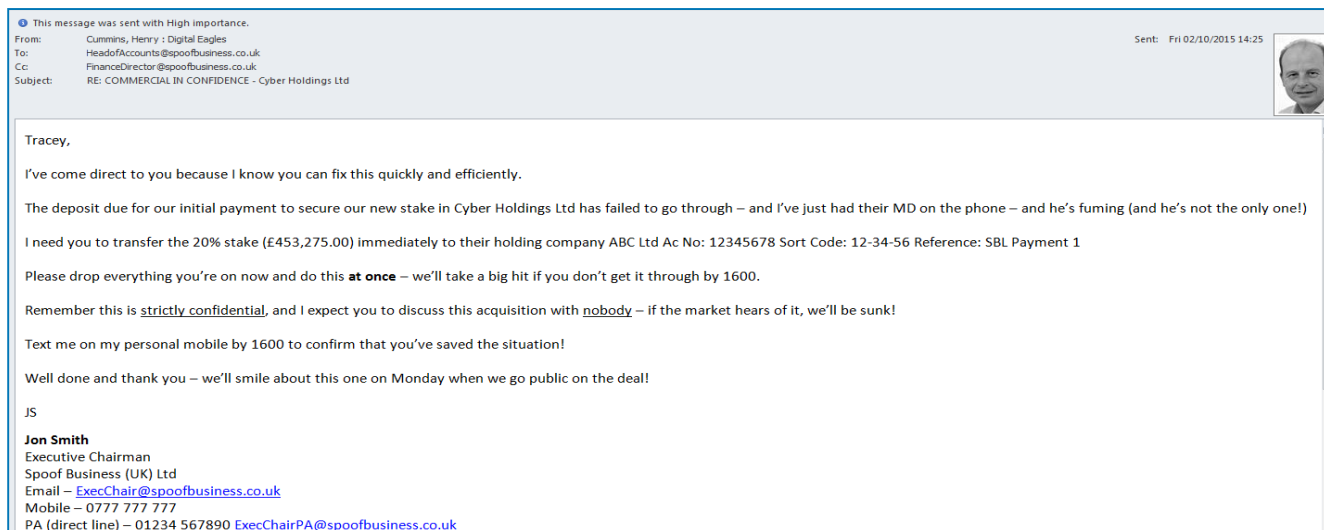
King regards

Dave Cameroon

Senior Complaints Handler

Budget Airline UK

CEO impersonation fraud

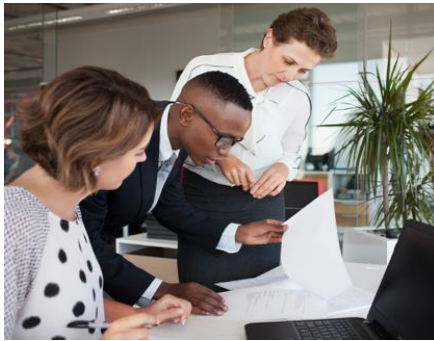


- CEO fraud is when a fraudster hacks a CEO , senior employee's, or agents personal or corporate email account and send an email requesting a payment to an account which the fraudster is in control of
- Fake email addresses can also be created which are similar to that of the CEO or senior official, and fraudsters can disguise emails as being sent by the recognised sender
- They can insert fake emails into existing genuine email trails.

To help protect your organisation

- Be cautious about any unexpected emails which request bank transfers, even if the message appears to have originated from someone within your organisation and is how your business usually operates
- Always check payment requests directly with the member of staff using details held on file to confirm the instruction is genuine.

Examples of social engineering



Supplying details to a fraudster who has phoned you claiming to be from your bank or credit card provider. They advise you that your account has been compromised and that you need to transfer money to a 'safe', 'holding' or 'cloud account' to protect it. They may even know information about your account such as balances or transactions to convince you they're genuine. This is known as **vishing**. Caller ID can also be manipulated to trick you that calls are coming from a known number.



Text messaging scams called **SMishing** – these occur when you receive a text message that appears to be from your bank and often shows up in the same message feed, asking you to confirm or supply account information. This is especially dangerous since many of us receive genuine text messages from our banks.



Mobile bugs – This year has seen the introduction of mobile malware that has become considerably more sophisticated than what's been there before. A common theme is the attempt to root the phone in order to provide complete control and establish a permanent presence on the device.

Cyber attack – start point

Malware gives the fraudster access to personal information, account details, passwords, key logging and mouse movement, ability to watch the victim's screen. Trojans often open 'backdoors' to the affected computer system, giving the fraudster remote access.

- Removable storage
- Embedded documents
- Links and downloads
- Virus-infected networks.

Passwords are the front door keys to an organisation, and here is how to get hold of them:

- Deception – tricking you into revealing it
- Brute force – an automated effort to hack your password
- Spyware – recording your login
- Shoulder surfing – watching you log in.

Passwords – How secure are yours?

Top 10 Passwords of 2017*

1. 123456
2. Password
3. 12345678
4. qwerty
5. 12345
6. 123456789
7. letmein
8. 1234567
9. football
10. iloveyou

Passwords and the Internet of Things

Connected devices:

- Security Cameras
- Watches
- Thermostat
- Lights
- Routers

Have you changed the default passwords?

If you haven't you could be giving hackers the keys to your network!

*Source: fortune.com/2017/12/10/the-25-most-used-hacked-passwords-2017-starwars-freedom/

Common types of attack



Man in the middle attack

The attacker intercepts the network and watches the transactions between the two parties and steals sensitive information. Consider using a Virtual Private Network when connecting to public Wi-Fi.



DDoS attack

Overwhelming your servers to take your site down and deny service to your site/servers.

ATM Fraud

- There are 2 main types of ATM Fraud, Distraction Scam and Keyboard Logging
- Distraction Scam involves 2/3 fraudsters, one distracting you by saying you have dropped money on floor, second/third keep an eye on what the PIN you have typed is and swaps your genuine card with a fake
- Keyboard loggers usually are placed in remote ATM locations such as 24/7 supermarkets
- When coming up to ATM beware of a loose keyboard/card insert and any pin holes in the place directly above the pin pad.



Courier Fraud

- Interesting and clever scam created by fraudsters targeting vulnerable people
- Originally Fraudster will contact customer to say card has been used for Fraud and new card will be sent
- Next day a courier will arrive at door with 'new card' but will ask to identify customer by entering PIN into 'security device'
- Once PIN is confirmed, courier will hand 'new card' to customer while removing 'fraudulent card'
- What actually has happened is card is fine but with the PIN entered into the 'security device', fraudster has access to card and PIN to go on to online banking and start to transfer all funds out

Further reading

- [digital.wings.uk.barclays](https://digital.wings.uk/barclays) – our platform to educate all staff members in all things digital. Please log on and complete the cyber security module to enhance your understanding
- www.cyberaware.gov.uk – HM Government site – Be Cyber Aware is a cross-government campaign funded by the National Cyber Security Programme
- www.cyberaware.gov.uk/cyberessentials – Cyber Essentials – Government-backed and industry supported scheme to guide businesses in protecting themselves against cyber threats
- ncsc.gov.uk – working with partners across industry, government and academia to enhance the UK's cyber resilience
- actionfraud.police.uk In the UK report all fraud and cybercrime allegations to Action Fraud: Telephone: 0300 123 2040
- www.barclayscorporate.com/fraudawareness – a list of videos explaining the types of social engineering fraud used by cyber criminals
- getsafeonline.org – an online resource of advice about staying safe while online
- pcisecuritystandards.org/pci_security/small_merchant – information for small merchants
- http://www.met.police.uk/docs/little_book_scam.pdf - general scam and cyber crime information

Thank you

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