

Strengthening your fraud and cyber-crime protection controls

March 2017

Audience question:

What is your role within your institution?

- a) Payment operations / cash management / treasury services
- b) Compliance
- c) IT / Technology
- d) Security / information security
- e) Other





Speakers



Name
Positio
Releva
experi

ence

David Ferbrache

Technical Director Cyber Security, KPMG UK

David has over 25 years experience of all aspects of cyber defence dealing with the most sophisticated and disruptive cyber attacks, and the is the lead for Cyber Defence Services in the UK

- Previously Head of Cyber and Space for the Ministry of Defence in the UK. Defending MOD against high end cyber threats, leading cyber policy for MOD and international relations on cyber issues, sponsor for the Defence Cyber Security Programme. MOD lead on Central Government cyber contingency planning and exercises
- Extensive experience of threat scenario development and cyber risk assessment, including previous end-end security assessments for UBS, and for over a dozen financial institutions in the UK and Switzerland
- Board and executive committee engagement on cyber security issues, including design and delivery of senior cyber wargaming and exercising of diverse cyber attack scenarios



Name B
Position P
Relevant B

experience

Bedria Bedri (Bia)

Partner, Cyber Security, KPMG UK

Bia is an experienced consultant with 20 years industry knowledge, leading large-scale complex transformation and change programmes to enable clients to effectively manage emerging cyber threats, risk and regulatory expectations whilst delivering business objectives, innovation and growth.

- As a Partner, Bia's focus has been developing client relationships in the market with a very strong network of organisations
 at senior levels who trust Bia as an advisor and delivery lead.
- Bia's clients include leading global banks, where consistent high quality, leadership and partnership with clients has been key to a successful track record in delivering clients' multi-million pound programmes, managing large teams of 50+ in multiple geographies including client teams and third party suppliers.
- Bia has excellent communication skills and is well traveled with advisory experience gained in the UK, EMA, ASPAC, and the Americas.
- Bia publishes in the UK and global media as a thought leader in cyber security space and has links into business and academia such as Royal Holloway, University of London.







Name
Position
Relevant
experience

Dr. Tony Wicks

Head of AML and Fraud Prevention Initiatives

For over 20 years, Tony has worked with leading financial institutions to provide technology solutions for regulation, compliance and fraud detection. Tony is currently working as part of the SWIFT Customer Security Programme, heading up Your Counterparts focus area.

Working in Financial Crime Compliance at SWIFT, Tony is creating utility based solutions to help institutions meet their financial crime compliance obligations. These solutions help institutions maintain AML and sanctions compliance, manage regulatory risk, prevent fraud, and ensure effectiveness and increase efficiency.

Tony holds a PhD in Signal Processing from the University of Warwick.



Audience question:

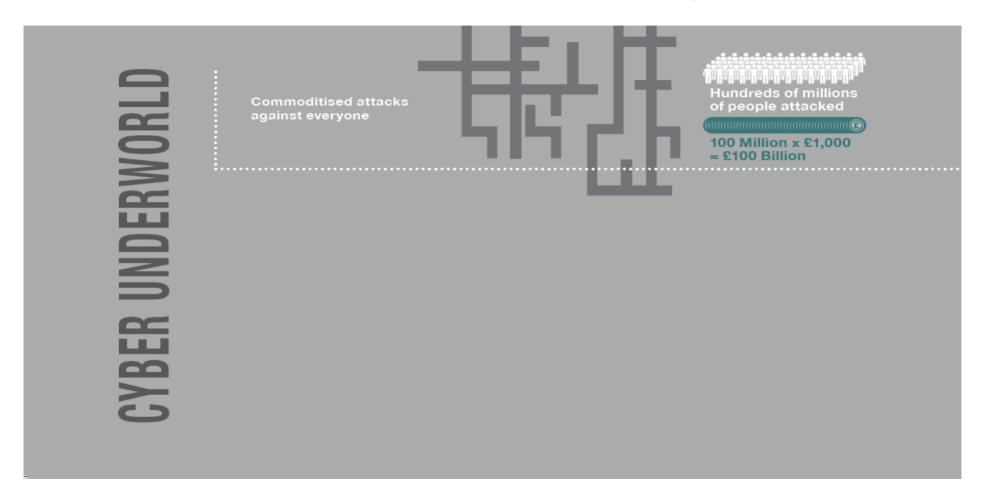
What do you think are the greatest areas of weakness to cyber-threats? (pick three)

- a) Human factors
- b) Email compromise
- c) Infra-structure and connectivity
- d) Computing environment
- e) Physical security controls



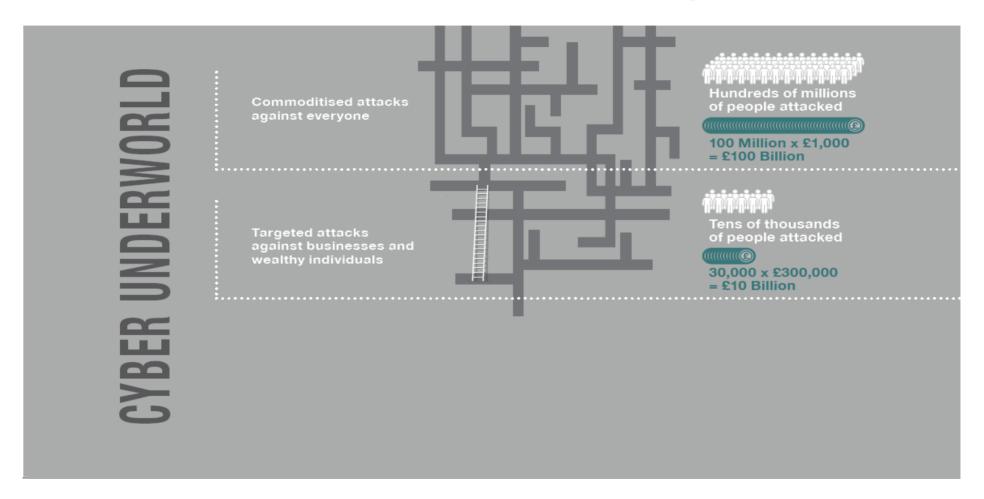
KPMG Cyber Security Risks to SWIFT Members

Ruthless and Rational Entrepreneurs



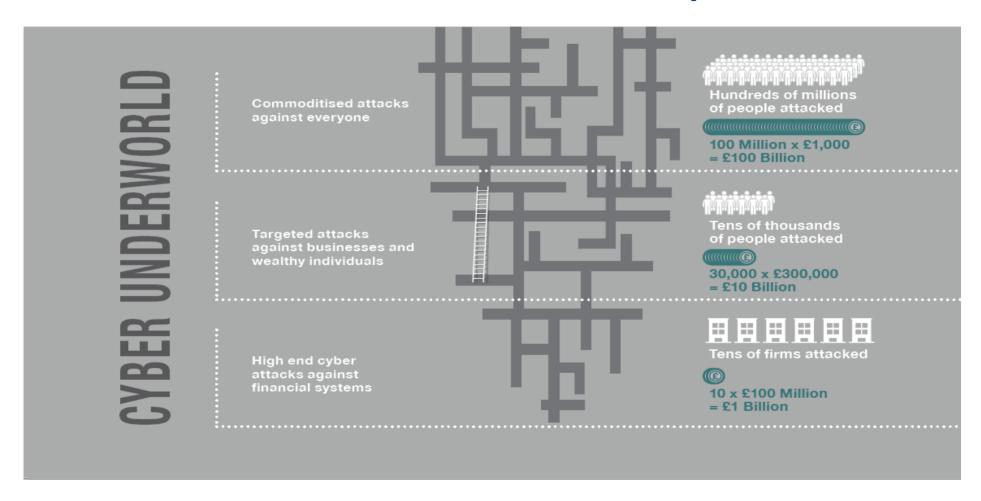


Ruthless and Rational Entrepreneurs



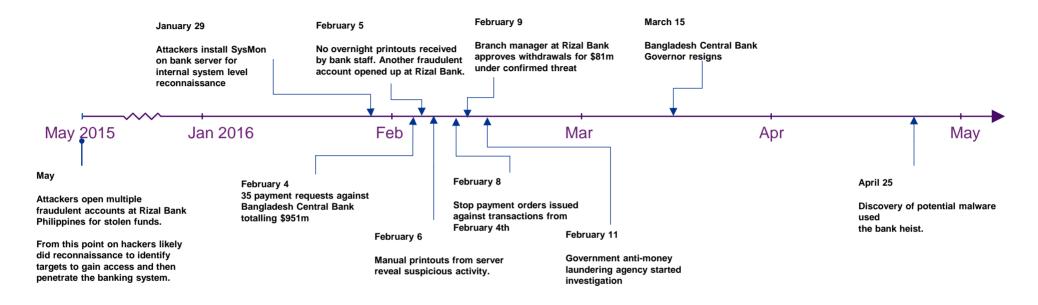


Ruthless and Rational Entrepreneurs





Funds Transfer Attacks



February 2016 - Bank of Bangladesh
June 2016 - Ukrainian Bank attacked
October 2016 - Multiple countries
Possible links to Carbanak - Russia



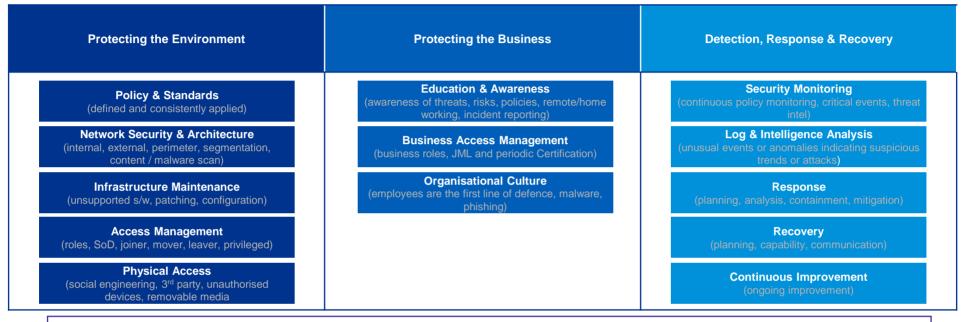
Audience question:

What measures are most effective in dealing with insider frauds and cyber threats?

- a) Staff training and awareness
- b) Employee vetting
- c) Enhanced IT security / logging and control
- d) Penetration testing
- e) Fraud detection tools



Security Good Practice – Basic Hygiene





People





Information & Cyber Security Frameworks

ISO 27001 Information Security NIST Cyber Security Framework CESG 10 Steps to Cyber Security Cyber Essentials Certification Scheme ISO 27032 Cyber Space

PCI-DSS / Swift / other





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Audience question:

What measures do you already apply in your business to address cyber-threats? (tick all that apply)

- a) Two-factor authentication
- b) Maker checker (four-eyes) review
- c) Anti-virus
- d) Payments reconciliation
- e) Fraud detection





SWIFT Customer Security Programme

Your Counterparts | Prevent and Detect

Tony Wicks

Customer Security Programme | Modus Operandi



- Common starting point has been a security breach in a customer's local environment
- In all cases, the SWIFT's network and core messaging services have not been compromised
- Attackers are wellorganised and sophisticated

Step 1

Attackers
compromise
customer's
environment

Step 2

Attackers
obtain valid
operator
credentials

Step 3

Attackers submit fraudulent messages

Step 4

Attackers hide the evidence



Audience question:

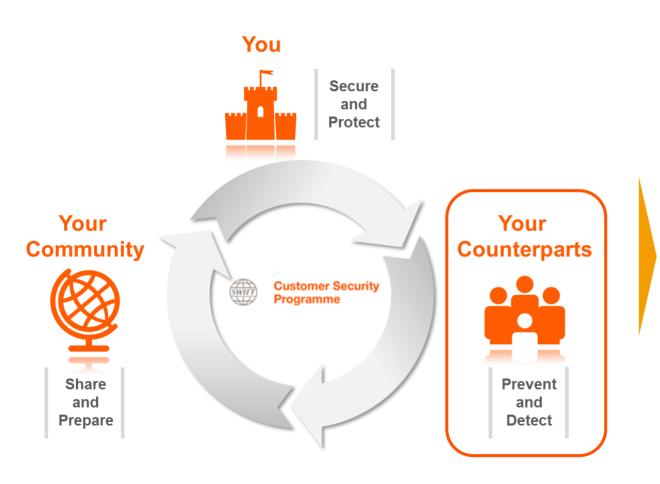
Are you planning to re-evaluate your security controls?

- a) Within the next 3 months
- b) 3-6 months
- c) Within a year
- d) Within the next 3 years
- e) We do not plan to do any re-evaluation



SWIFT Customer Security Programme (CSP)

Framework



Customer Security Programme

While all SWIFT customers are individually responsible for the security of their own environments, a concerted, industry-wide effort is required to strengthen end-point security

On May 27th 2016 SWIFT announced its Customer Security Programme (CSP) that supports customers in reinforcing the security of their SWIFT-related infrastructure

CSP focuses on mutually reinforcing strategic initiatives, and related enablers



CSP | Your Counterparts

Your Counterparts | Prevent and Detect

- 1. 'Clean-up' your RMA relationships
- 2. Engage with us on market practice
- 3. Put in place fraud detection measures

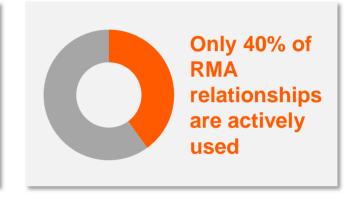


CSP | Relationship Management Application (RMA)

RMA and **RMA** plus

Poor management of RMAs creates potential security risks

Wolfsberg guidance means banks are under greater regulatory pressure to control RMAs



Unilateral RMA revocation is now easy and is confirmed within 15 minutes

"RMA and RMA Plus: managing your correspondent connections" info-paper provides details on best practice



CSP | Market Practice

Getting the basics right is the first defence against cybercrime

What should you do?

- 1. Encourage the use of confirmations for all payments (MT900 / MT910)
- 2. Check that confirmations and statements (MT940 / MT950) are as expected
- 3. Avoid using free format messages to change payment instructions
- Know how to respond in the event of fraud use the "FRAD code" when sending cancellation messages
- 5. Report any incidents to SWIFT Support







CSP | Daily Validation Reports

A simple, secure way to validate your SWIFT transaction activity and understand your payment risks

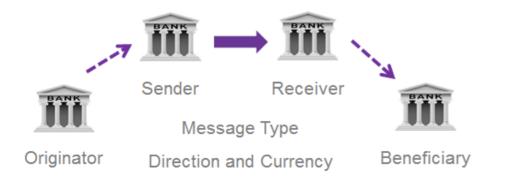




CSP | Daily Validation Reports

Activity Reporting – reports aggregate daily activity by message type, currency, country and counterparties with daily volume and value totals, maximum value of single transactions and comparisons to daily volume and value averages

Risk Reporting - highlights large or unusual message flows based on ordered lists for largest single transactions and largest aggregate transactions for counterparties, and a report on new combinations of counterparties to identify new relationships





MT202

MT202C



158 142 384 34

22,061,577,176.42

8 294 917 02

new relationships

New Counterparties Reporting -

530

13/

MT202

MT202C

mount received (converted) 300,709,597.31

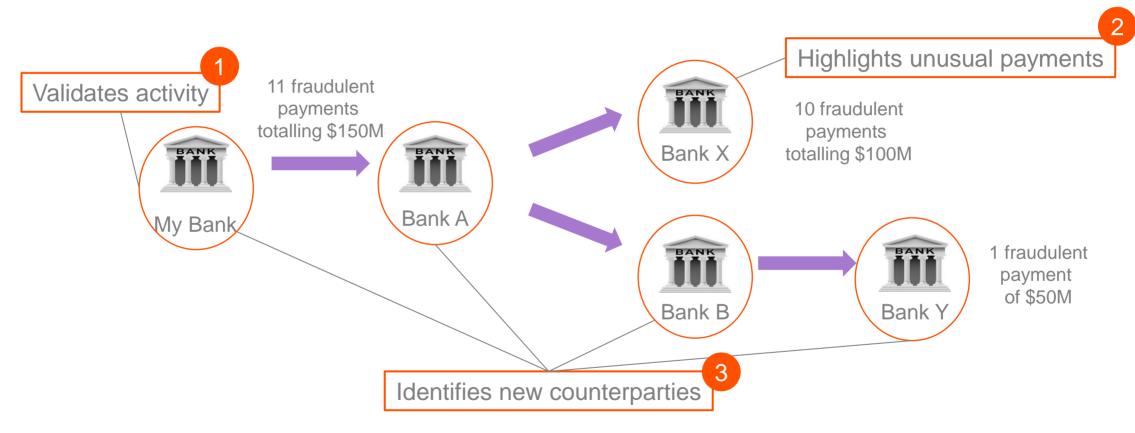
22 484 895 559 08

2 793 031 03

highlights any new combinations of direct and indirect counterparties. Makes it easy to identify new payment relationships that may be indicative of risk, and helps you quickly understand the values and volumes of the transactions involved



CSP | Daily Validation Reports | Addressing the threat





Q&A





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