

Cyber Threats and Resiliency: Customer Security Programme

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Abu Dhabi, Arab Regional Fintech Meeting

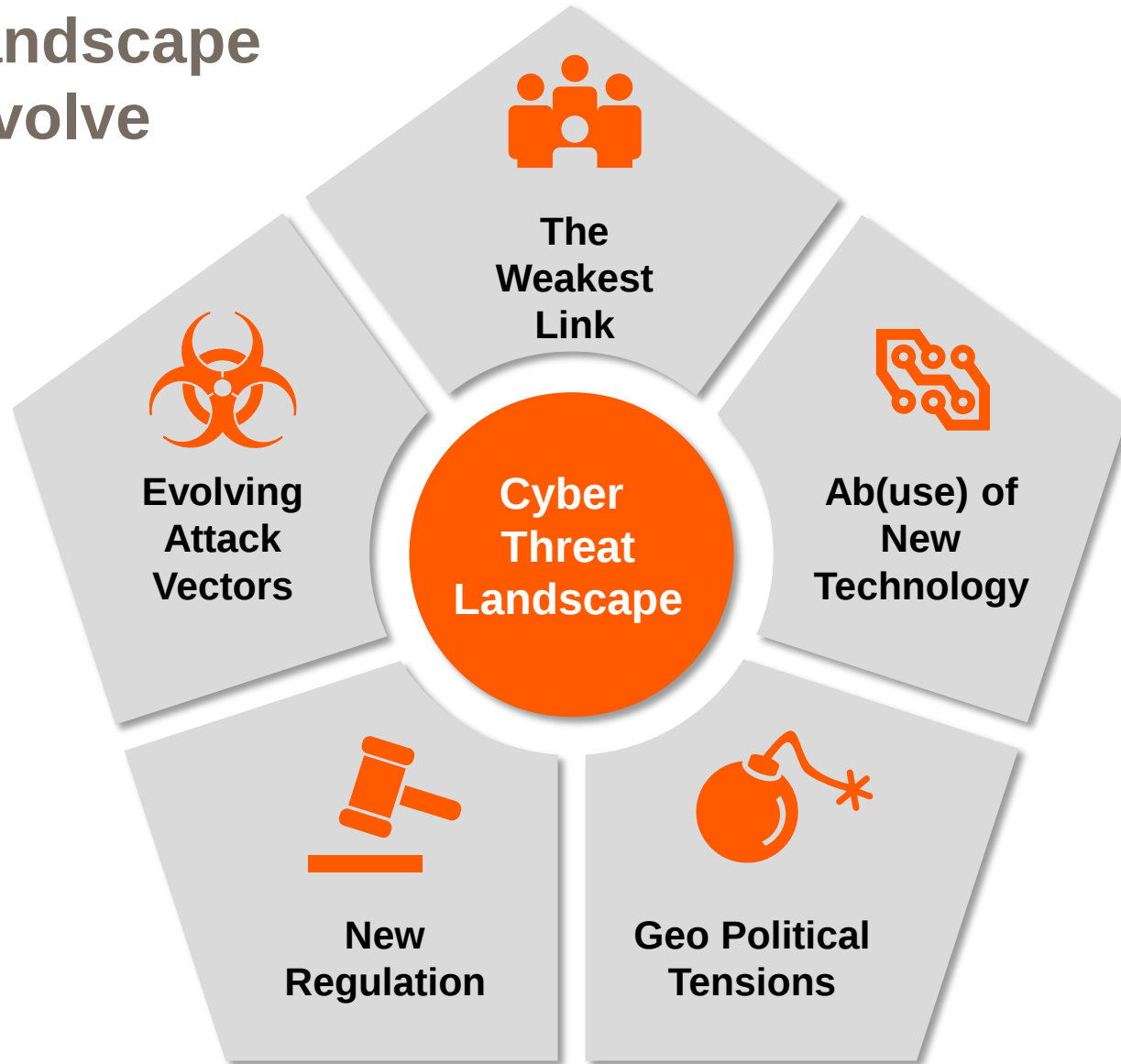
Cyberattacks on SWIFT customers continues

**For 2019, the rate of new,
confirmed customer cases
is similar to 2018**

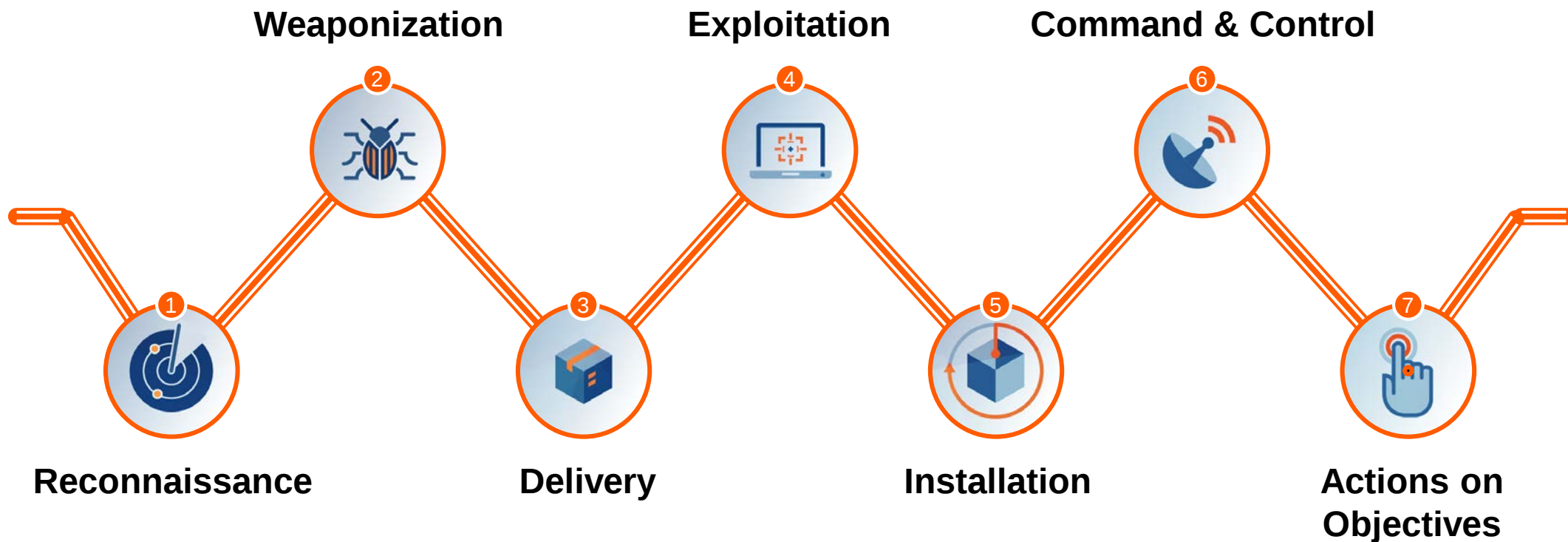




Cyber threat landscape continues to evolve



These APT attacks follow the 'cyber kill chain'



1 month to 2 years

In customers' environment



0 to 2 weeks

In customers' messaging interface



0 to 6 hours

Sending fraudulent messages

Many of the attacks are attributed to Lazarus

Lazarus | Bluenoroff | APT38

Chollima - Mythical Winged Horse



Experts identify as nation-state sponsored, well funded and patient with sophisticated APT TTPs and malware

Constantly adapting and evolving – modifies malware to try to circumvent additional security measures such as alerting, file-based detection and 2FA

Believed to work with other criminal groups e.g. ATM cash-outs

Tools and malware sets have evolved over time

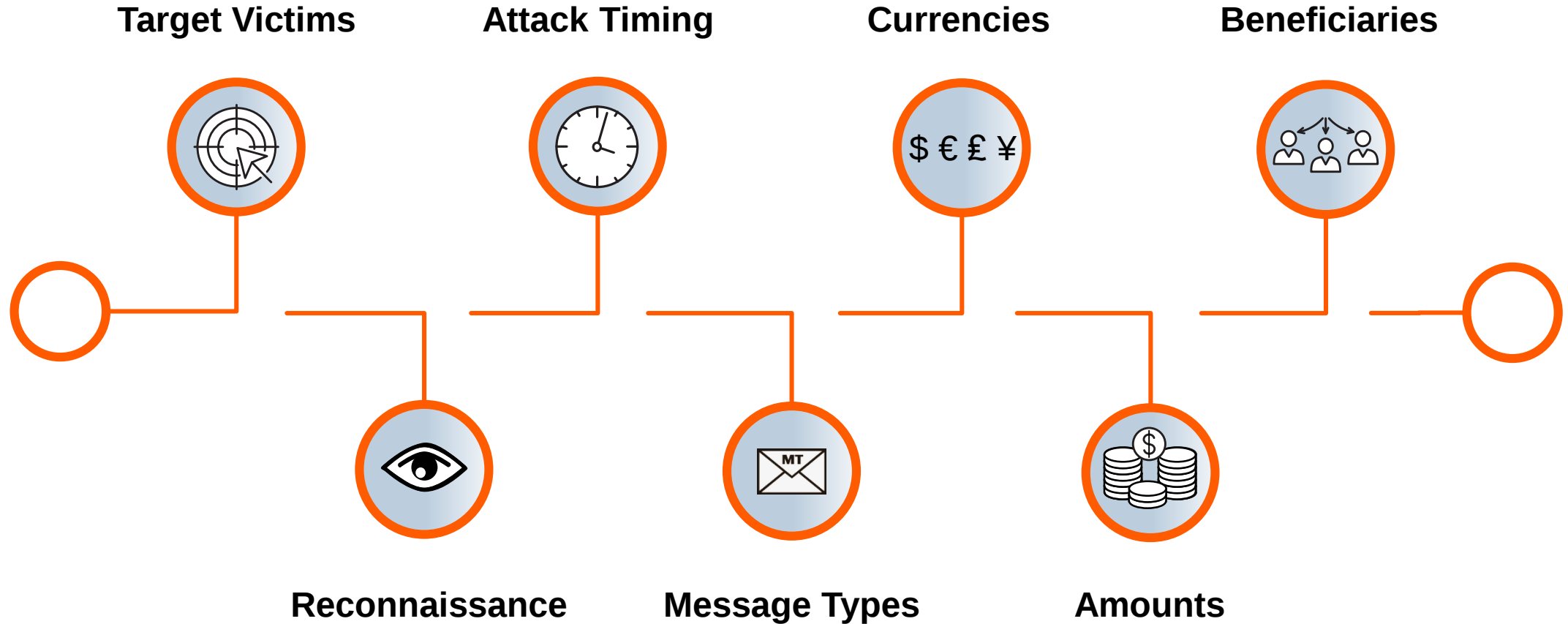
Lazarus

Carbanak

TA505



Common risk factors have emerged





Customer Security Programme

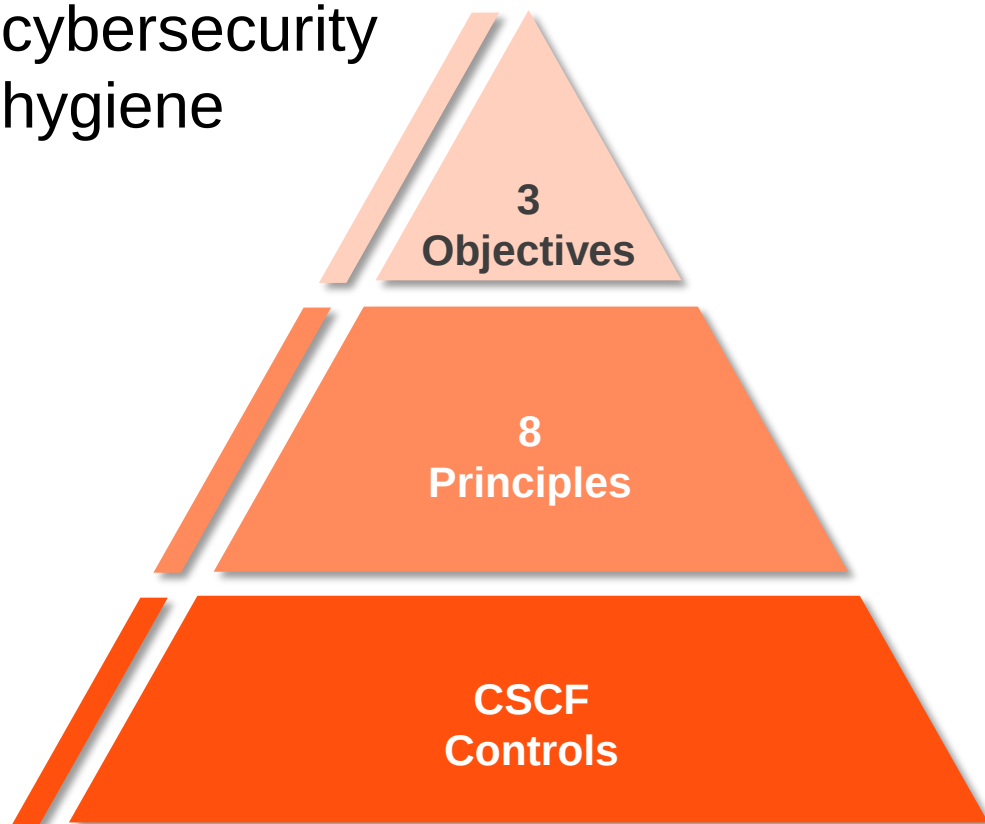
Launched in 2016 in response to the attack on Bangladesh Bank, CSP is a multi-year, multi-faceted initiative

CSP aims to transform the institutional financial services ecosystem by raising the bar of cybersecurity hygiene, reducing the risk of cyberattacks and minimising the impact of fraudulent transactions



Where we are now | controls

Improve
cybersecurity
hygiene



CSP Security Controls

Secure Your Environment

1. Restrict Internet access
2. Segregate critical systems from general IT environment
3. Reduce attack surface and vulnerabilities
4. Physically secure the environment

Know and Limit Access

5. Prevent compromise of credentials
6. Manage identities and segregate privileges

Detect and Respond

7. Detect anomalous activity to system or transaction records
8. Plan for incident response and information sharing



Where we are now | controls evolution

Raising the bar

2017

2017

- 27 Controls
- 16 Mandatory +11 Advisory
- Self-Attestation by 31 Dec17

2018

2018

- 27 Controls
- 16 Mandatory +11 Advisory
- Compliance by 31 Dec18

2019

2019

- 29 Controls
- 19 Mandatory + 10 Advisory
- Compliance by 31 Dec19

2020

2020

- 31 Controls
- 21 Mandatory + 10 Advisory
- Compliance by 31 Dec20

2017

- Self-Attestation by 31 Dec 2017

2017

2018

- Self-Attestation of Compliance by 31 Dec 2018

2018

2019

- Self-Attestation of Compliance by 31 Dec 2019

- Published self-attestation turn amber when expired or invalidated
- Advisory review by external/internal audit
- Internal Service Bureau are now considered as Non SWIFT user group Hub
- Go Local India (GLI) users do not have to self attest

2019

2020

- Independent Assessment by 31 Dec 2020

- Users need to SA between June and December; their attestation is then valid till the end of the following year
- SA must be supported by an independent external/internal assessment
- SWIFT Reserves the right to mandate an independent external assessment
- Policy and CSCF updates follow an annual update cycle
- User Guide section transferred to KYC-SA documentation

2020



Where we are now | assurance

Assessment Type	Selection Criteria	Assessor	Timeline			
			2017	2018	2019	2020 and beyond
① User-Initiated Assessment	Voluntary - Customer Initiated	Internal or external				
② Community-Standard Assessment	Mandated - All Users	Internal or external				
③ SWIFT-Mandated Assessment	Mandated - Sampled Customers Driven by QA Analysis	External only				

Where we are now | counterparty risk management

Establish a
governance model

Adopt cybersecurity risk
countermeasures



Establish a cybersecurity
risk management
framework

Incorporate cybersecurity
attestation data from
SWIFT counterparties



Customers do
not operate in a
vacuum



SWIFT actively shares its intelligence





Questions



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