



Cyber Resilience ACG Cross Training Seminar

May 2018

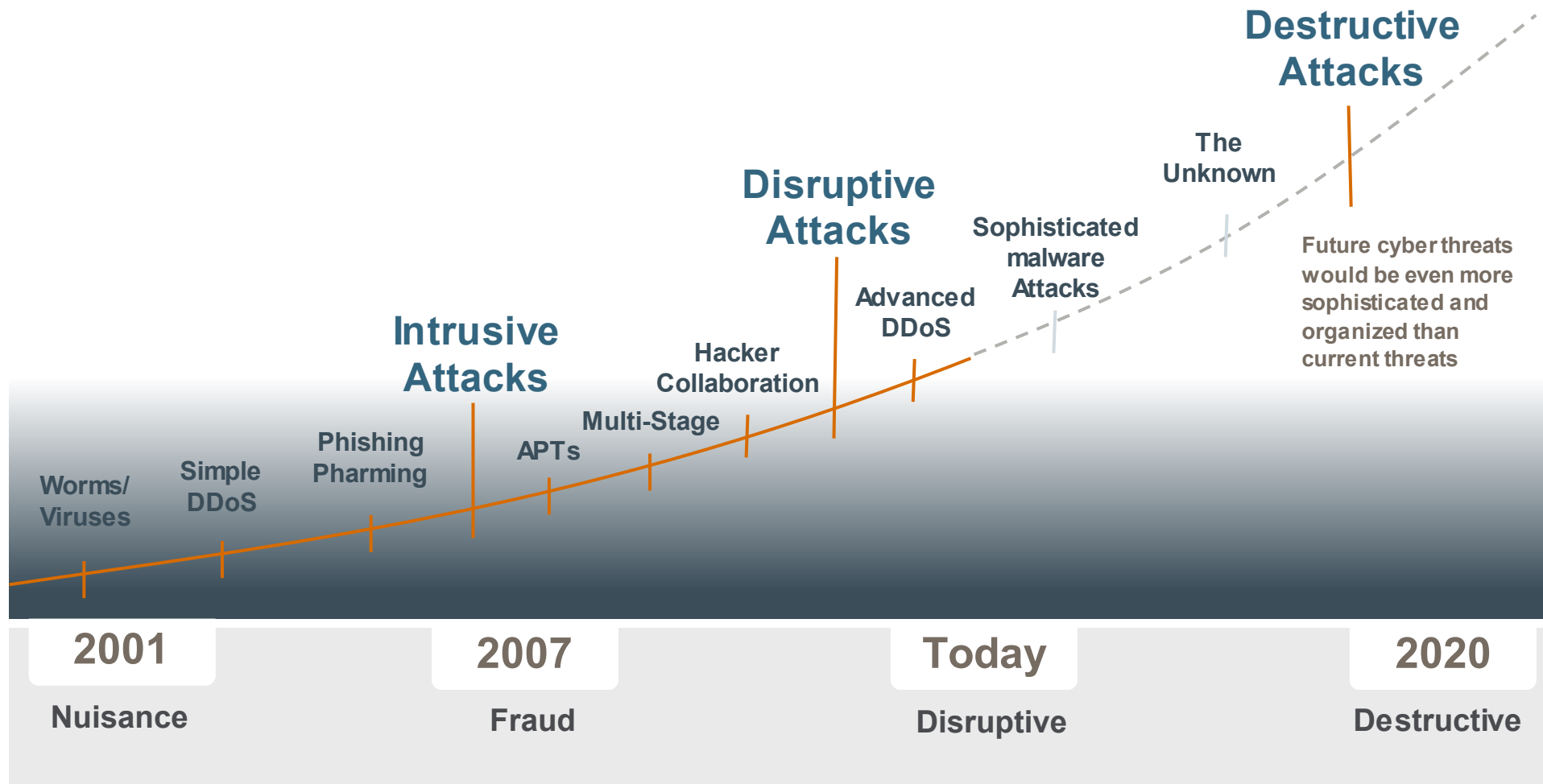
TLP rating **AMBER**

Confidential to participants and restricted distribution

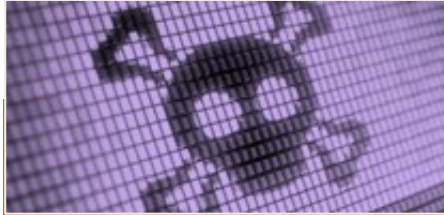
Cyber threats continue to be persistent and sophisticated



Cyber threats are evolving in frequency and sophistication



There are several threat actors that are a source of cyber risk



Nation State

Targeted attack with a lot of pre-planning; well funded or backed by Nation States. Motivation factors include political unrest and economic disturbance.

Objectives: Intellectual Property theft; competitive nation state advantage. Espionage or sabotage.

Type of Attacks: Advanced Persistent Threat (APT); spearphishing; identify system flaws and gain control of the system.



Cyber Criminals

Primary threatens the financial sector networks; Team and network size varies based upon the operation size.

Objectives: financial gain; steal intellectual property;

Type of Attacks: Identity theft; fraud; extortion; Malware injection



Hactivists

Political, Religious, Ethical, or Retaliatory motive. Not motivated by money or financial gain. Bring attention to political or social cause.

Objectives: Disrupt operations; disclosure of sensitive information. Promote social ideology.

Type of Attacks: DDoS; exfiltration of sensitive information using hacking techniques or spearphishing. Disrupt services and sabotage targets.



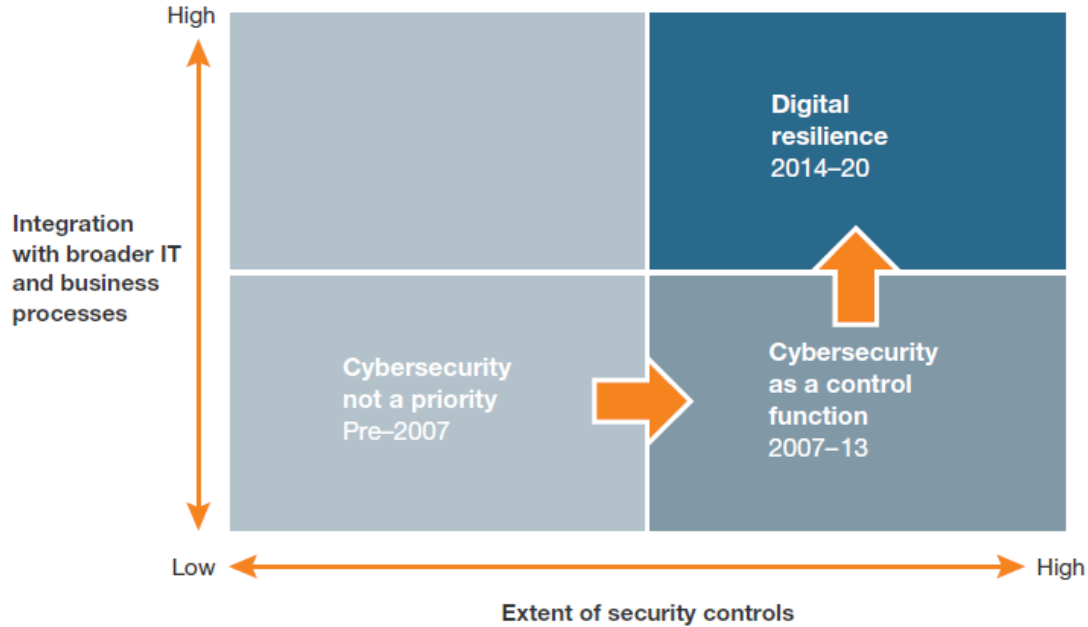
Insider Threat

Legitimate Access to applications or network. Exploit known vulnerabilities or pass on internal application/network information to outsider.

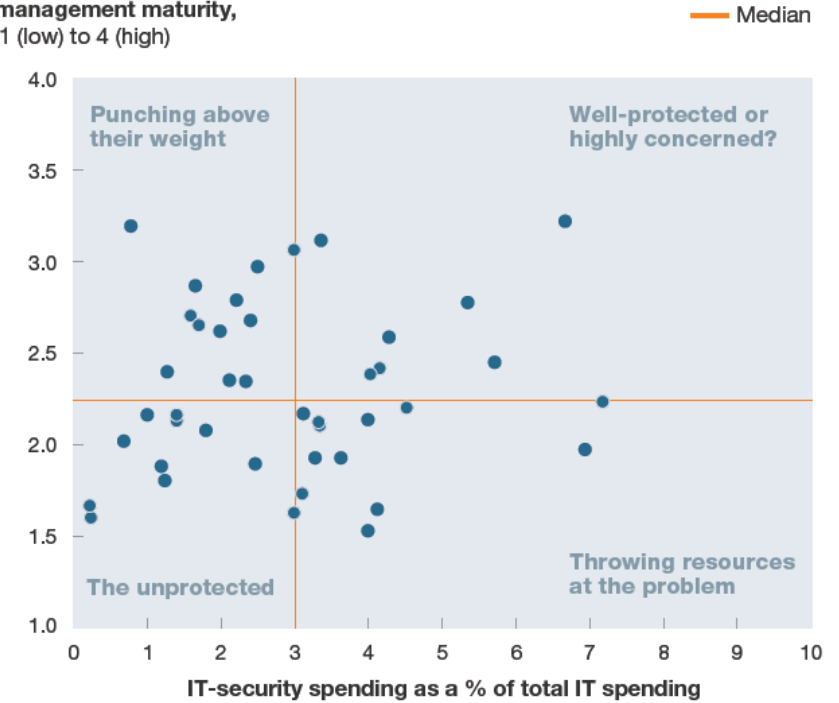
Objectives: Data theft; Destruction; Revenge. Fraud and Financial gain.

Type of Attacks: access systems using legit access; data exfiltration to personal devices. Social engineering to manipulate co-worker.

Cyber response must evolve from control to resilience

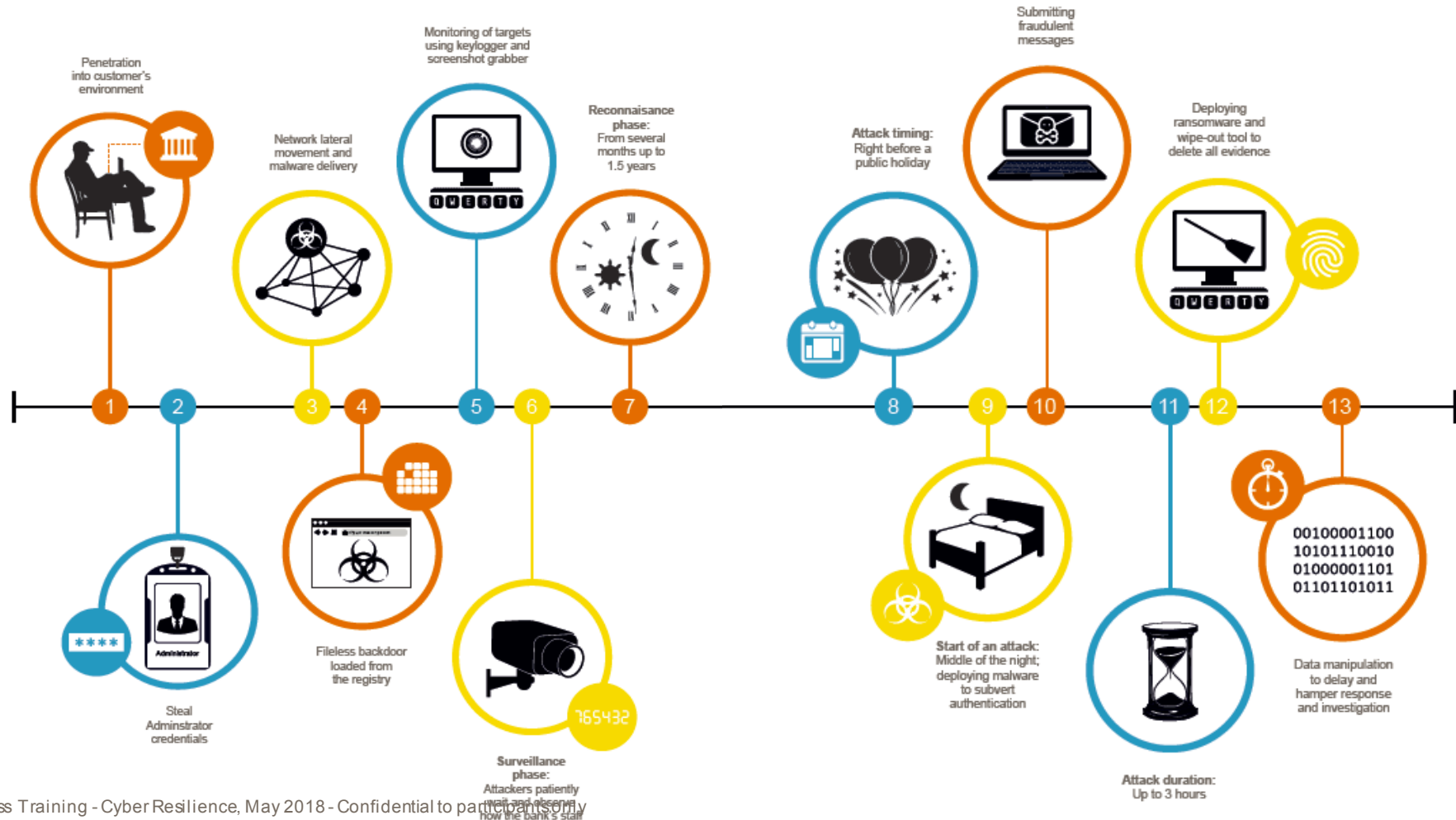


Cyber risk-management maturity, on scale of 1 (low) to 4 (high)



Source: Bailey, Kaplan & Reznick, *Beyond Cybersecurity: Protecting Your Digital Business*, April 2015

SWIFT published a detailed case study in November 2017, customers must remain vigilant and ensure sound mitigating controls are in place



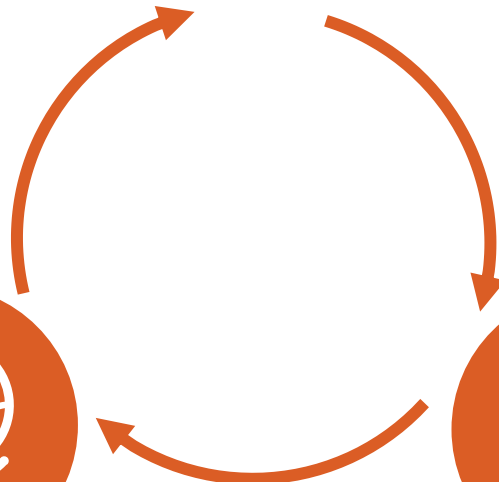
The Customer Security Programme (CSP) will continue to support our customers in responding to cyber threats, based on these three pillars

Your Community
Share and Prepare
Intelligence Sharing
SWIFT ISAC Portal



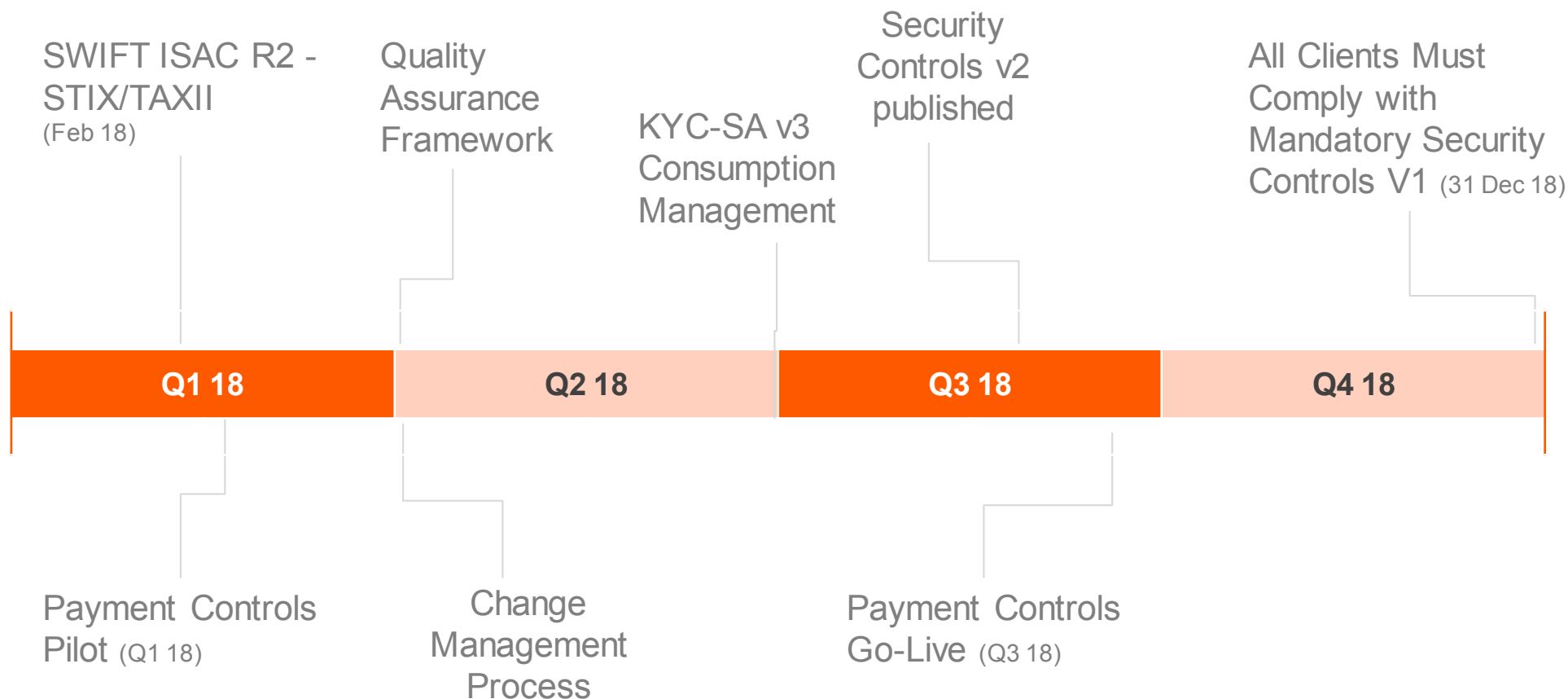
You
Secure and Protect
SWIFT Tools
Customer Security Controls Framework

Your Counterparts
Prevent and Detect
Transaction Pattern Detection –
RMA, DVR and Payment Controls



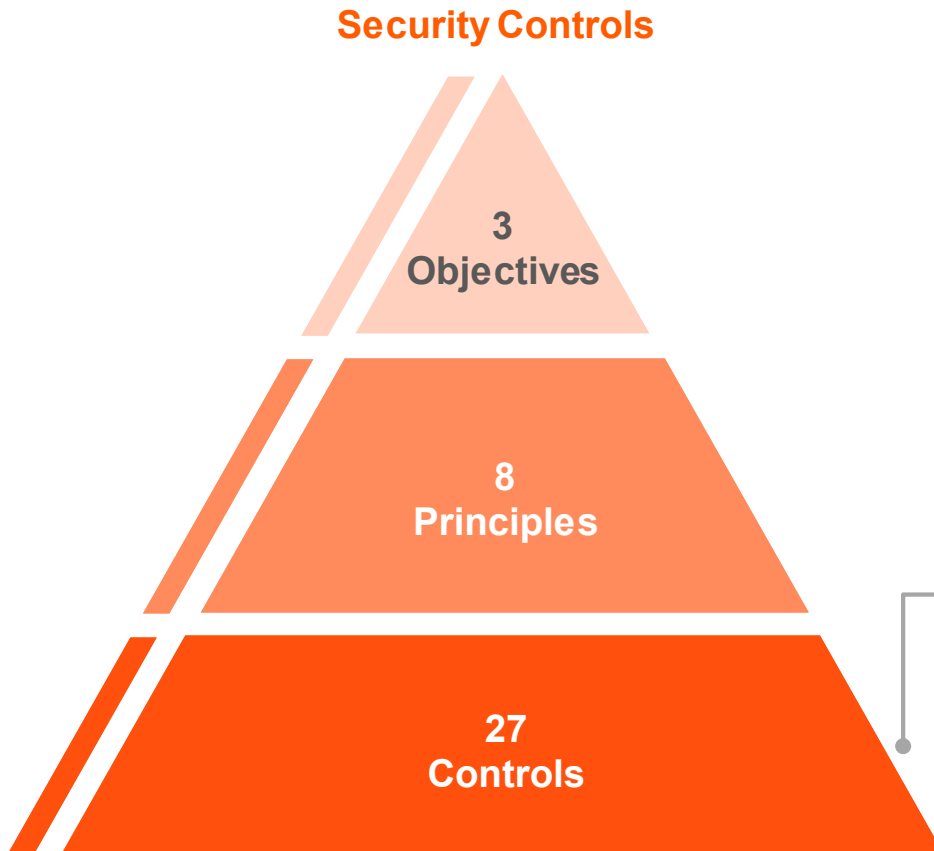


In 2018, key milestones around cyber intelligence sharing, evolution of the control framework and new anti-fraud tools are planned



SWIFT Customer Security Controls Framework

27 Controls



The 8 security principles are put into practice with 27 controls. **16 mandatory, 11 advisory.**

- in line with existing information security industry standards, and product-agnostic.
- expected to evolve over time in light of the changing cyber-threat landscape

Mandatory security controls

- establish a security baseline for the entire community
- all users must self-attest against their implementation on their local SWIFT-related infrastructure.
- set a realistic goal for near-term, tangible security gain and risk reduction.

Advisory controls

- based on good practice that SWIFT recommends customers implement on their local SWIFT-related infrastructure.

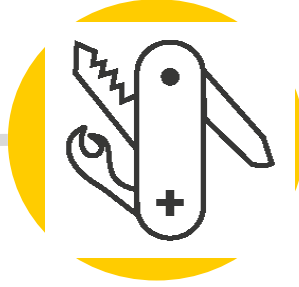
**Cyber resilience must be considered
from multiple perspectives –
technology, processes and people**



Are you prepared to respond to these persistent and sophisticated cyber threats?



**Have you secured
your infrastructure?**



**Have you
implemented
necessary controls?**



**Do you have the
capacity to
respond?**



**Have you secured
your ongoing
operations?**



Questions



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