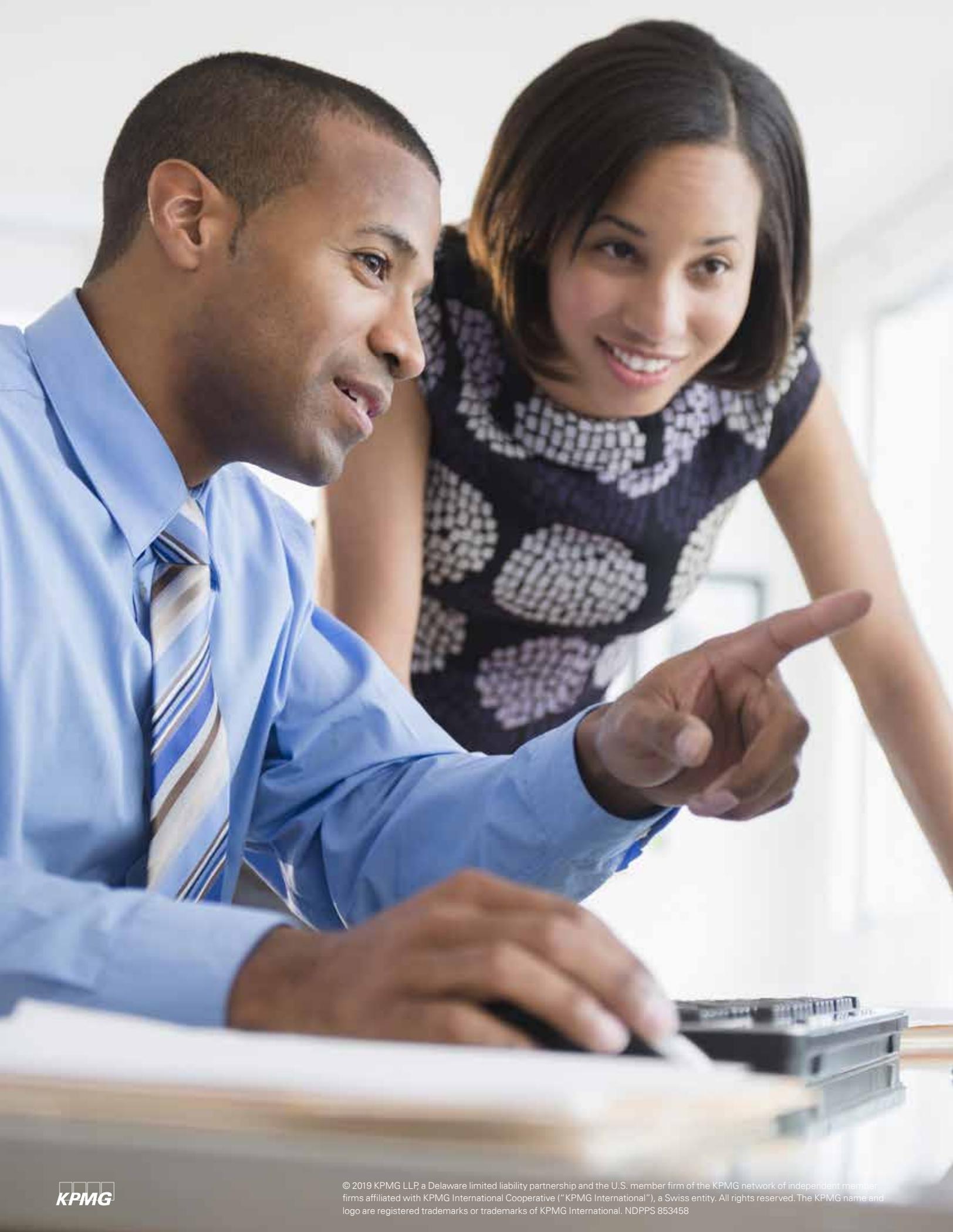




# Cybersecurity assurance and the SWIFT Customer Security Program







**The financial sector continues to be a prime target for highly sophisticated, customized attacks. In particular, several financial institutions around the globe have had their SWIFT platforms hacked by cyber thieves resulting in the loss of hundreds of millions of dollars. In response, the Society for Worldwide Interbank Financial Telecommunications (SWIFT) introduced a Customer Security Program (CSP) in 2017 that requires all member organizations who use the interbank messaging network to implement core security standards as well as a related “assurance framework.” SWIFT has published an assurance framework (Customer Security Control Framework—CSCF) that requires SWIFT members to self-attest their compliance with the mandatory controls on an annual basis.**

“

**The growing threat of cyberattacks has never been more pressing, SWIFT customers are responsible for the security of their own environments; but the security of the industry as a whole is a shared responsibility requiring full collaboration within financial services.**

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**—Alain Desausoi,**  
Chief Information Security Officer (CISO), SWIFT

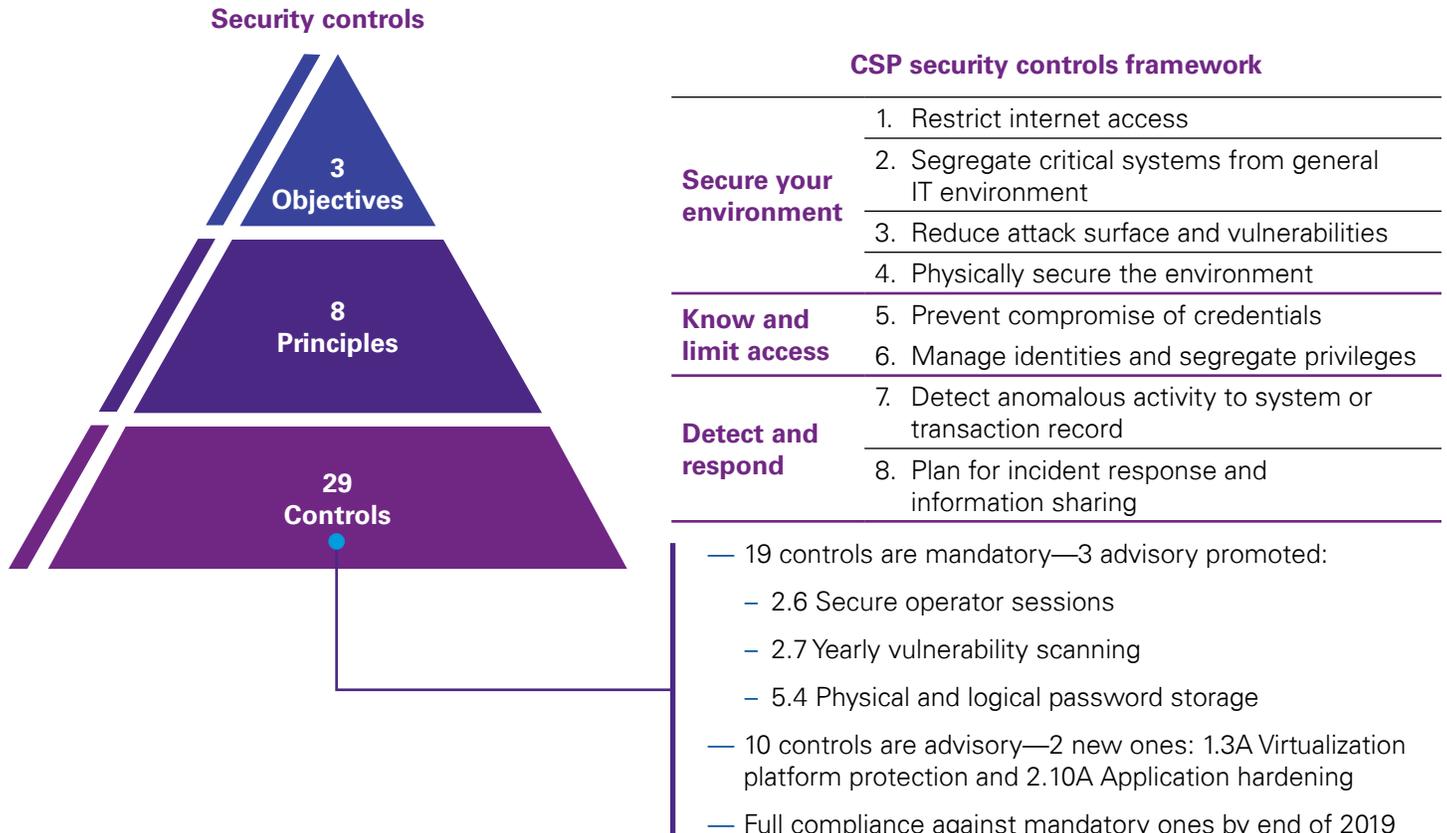
Source: Sibos conference, London (Nov. 23, 2018)

# SWIFT'S CSCF evolves in 2019

The SWIFT CSCF has been updated, moving three controls to the mandatory category and introducing two new controls into the advisory category.

The v.2019 of the SWIFT CSCF now comprises 19 Mandatory controls to which members must self-attest compliance and 10 Advisory controls. These changes provide SWIFT's response to the ever-changing cyber threat landscape and provides their user community with an enhanced, standardized assurance framework.

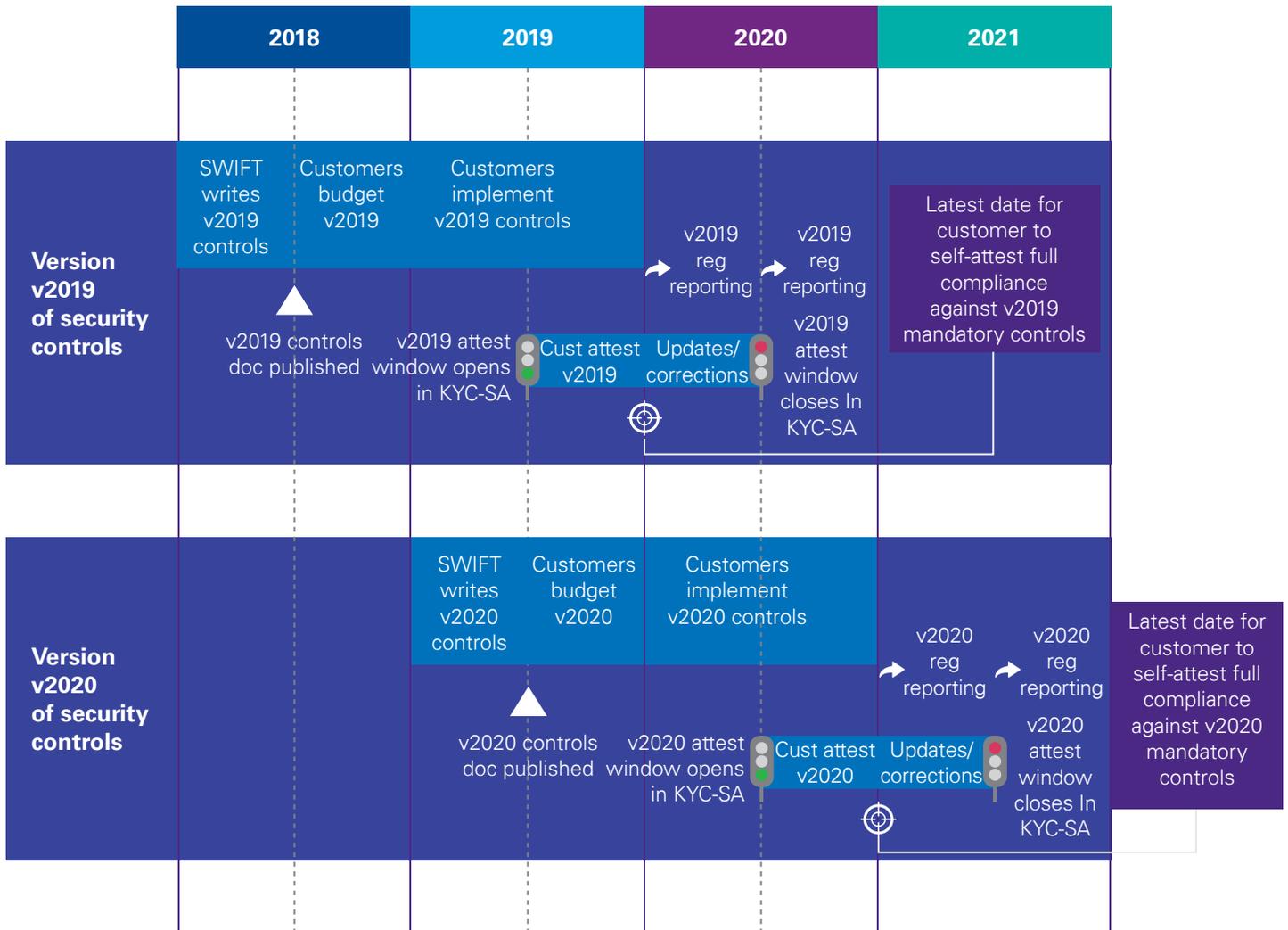
## CSP secure and protect—customer security controls framework v.2019



Source: SWIFT (August 10, 2018)

With the introduction of v.2019 of the CSCF, SWIFT has also published a timeline for members. This provides a schedule for the introduction of changes to the framework and the reporting requirement. SWIFT member organizations will be expected to assess and implement these changes in accordance with the published timeline.

**CSP update secure and protect—CSCF v2019 (aka v2) timeline**



Source: SWIFT (August 10, 2018)

**SWIFT reporting requirements:**

All SWIFT members are required to self-attest to their conformity with the CSCF’s 19 mandatory controls and have the option to self-attest to the 10 advisory controls on an annual basis (i.e., no later than December 31).

Additionally, as mentioned in SWIFT’s Q4 newsletter, SWIFT has begun requesting a select number of members to arrange for an independent external assessment to validate the members’ self-attestation. These assessments will need to be performed by independent specialists that possess the necessary technical capabilities to undertake the work. If the assessments highlight that the members’ current implementation does not match that self-attestation recorded in the SWIFT tool, then a new self-attest will need to be performed.

# KPMG's point of view

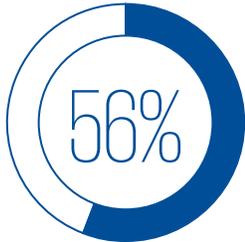
**With the changes noted in the preceding, and the increase in pressures from counter-party requests for greater security transparency and a higher level of assurance, automation in trading and payments systems, the broad array of interconnected platforms, and the increased speed of executed transactions, there is a heightened demand on SWIFT members' ability to consume these change drivers while simultaneously maintaining an effective, rigorous cybersecurity controls framework.**

By design, the SWIFT CSP will continue to change over time as the threat landscape and attack vectors evolve. The most effective management of risk takes the view of incorporating the SWIFT controls into an ongoing governance, risk, and compliance strategy within the organization and not a one-time, "check-the-box" activity. Below are some of the better practices we have assisted clients with in meeting their SWIFT requirements.

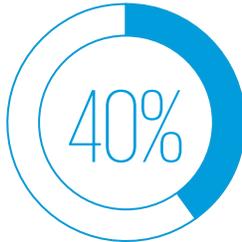
- **Risk identification:** Understanding the types of transactions, data flows, and systems used to process transactions is a critical first step for organizations. By identifying and documenting the end-to-end transaction chain and the accompanying infrastructure, management can understand the relevant risk points and design a well-structured security and risk framework in accordance with the SWIFT CSCF requirements.
- **Documentation will ease compliance pain.** With SWIFT set out to enforce compliance against its framework, it is critical for SWIFT users to understand their IT control environment and to clearly document how processes and controls implemented address the mandatory controls to alleviate the stress of going through the compliance process. Complete and accurate data flow diagrams that provide an end-to-end transaction flow across multiple systems and interfaces will help to accurately identify key risk points and control gaps and increase the assurance of proper SWIFT CSCF control coverage.
- **Integration and standardization is key:** Many organizations are faced with multiple security frameworks—some imposed by their regulators and others imposed by their counterparties or business relationships. Implementing and maintaining these frameworks can be a costly and time-consuming burden. A key component in addressing the SWIFT CSCF, often times overlooked, is integrating it into the organization's enterprise governance, risk, and compliance (GRC) model. Integration into an effective GRC program provides clarity on roles and responsibilities, consistent risk assessment and change processes, a streamlined library of controls to reduce redundancy, and coordination of reporting and monitoring of control effectiveness. This integration provides organizations with an enhanced ability to achieve compliance and operational performance goals as well as reduce costs and increase the sustainability of compliance.
- **Compliance automation:** With technology changes, the evolving nature of cyber threats, updates to the CSCF Implementation Guide, and changes associated with new business strategies and processes, organizations are looking at automation solutions to reduce compliance costs, increase efficiencies, and better understand complex risks that can impact their business. Automation can be used to extract textual information from non-machine-readable documents

to review transaction activity, analyze source documentation, aggregate test results for a more holistic view of risk, and assist with proactive identification and escalation of compliance failures. Automation can provide greater risk coverage and consistency and help identify more meaningful patterns in transactional data, ultimately providing stakeholders with improved insight into the organization's compliance practices.

**In the shift toward automation, organizations are focused on automating the following top compliance activities:**



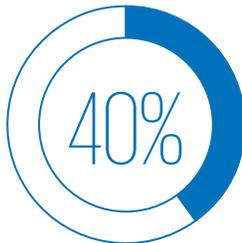
Compliance risk assessment



Regulatory change processes



Monitoring and testing



Policy management



Due diligence



Data and analytics

Source: KPMG's Compliance Automation Survey (2018)

— **Independent attestation has additional benefits:** SWIFT has already started requesting some of its members to hire an independent third party to validate the members' self-attestation as a part of SWIFT's Quality Review Program. An independent, objective attestation of the member organization's adherence to the SWIFT CSCF controls helps SWIFT members provide their counterparties and correspondents with a higher, globally recognized vehicle of assurance around their SWIFT infrastructure while reducing the burden on internal resources. The independent attestation report could also be used to satisfy a SWIFT quality audit or regulatory request. Additionally, an independent, globally recognized third party can provide SWIFT members with a broader industry perspective and better practices through a readiness assessment that may lead to a more efficient and effective way of addressing their SWIFT CSP requirements.



# KPMG's approach

**KPMG recognizes participating in a trusted SWIFT network, supported by the SWIFT CSP, is a strategic imperative for clients in the financial services industry. Since the inception of the SWIFT CSCF in 2017, KPMG has assisted clients globally in assessing their current-state SWIFT controls framework to identify gaps and provide practical, actionable recommendations for addressing those gaps in accordance with SWIFT CSCF criteria. Additionally, KPMG has also provided independent attestation services under recognized standards to clients in accordance with the SWIFT CSCF that provides those clients with a globally recognized standard of assurance and a reduction of effort for their critical in-house resources.**

KPMG brings a cross-functional team of professionals from the disciplines of IT Audit and Assurance and Cybersecurity who have experience in the financial services industry to deliver readiness assessments and/or attestation services tailored to the clients' needs and in accordance with the SWIFT CSCF criteria.

KPMG has developed a SWIFT security assessment framework and standardized reporting formats for the execution of SWIFT engagements that provides:

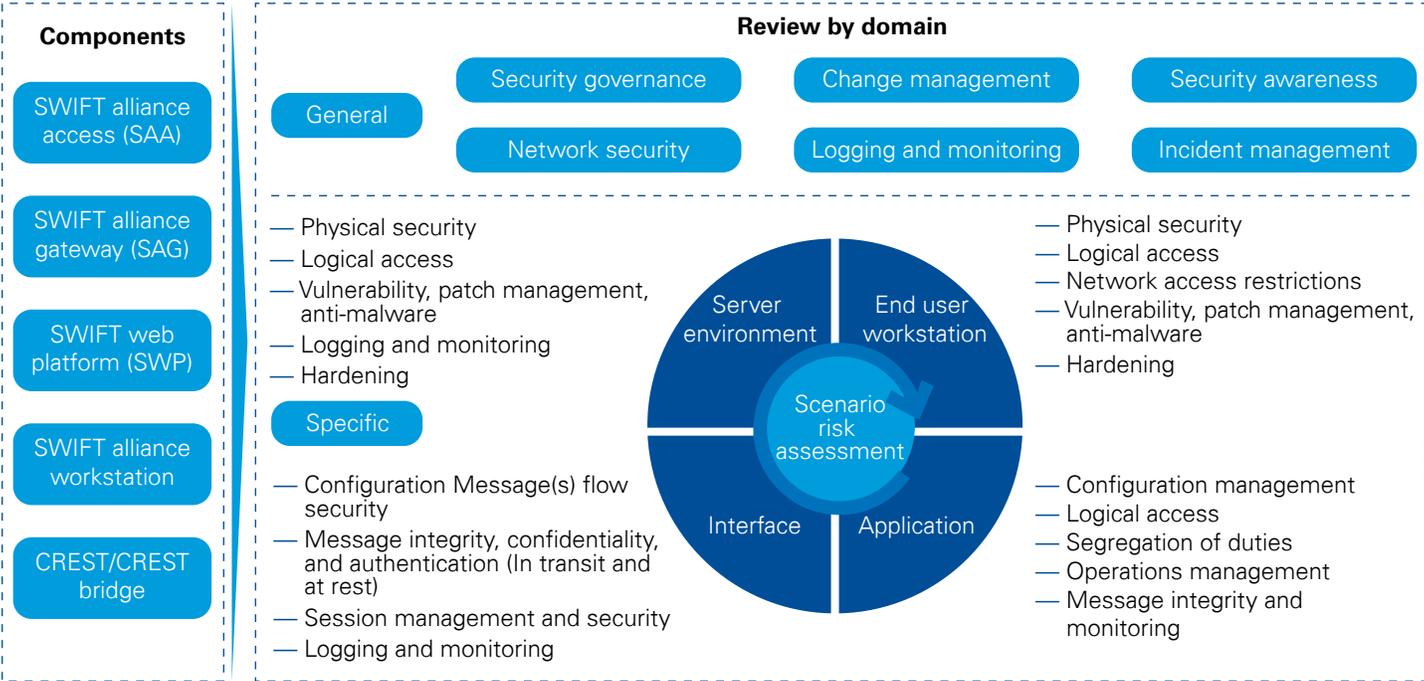
- A consistent, holistic approach to assessing cybersecurity frameworks for the latest iteration of the SWIFT CSCF
- Globally recognized reporting standards (ISAE 3000, AT-C 205, SOC 2+, or dual reporting)
- Entity-wide processes related to SWIFT
- Domain-specific controls
- Security and IT industry better practices







**KPMG SWIFT security assessment framework**



KPMG has an established global footprint in security risk management and assurance services. KPMG is investing heavily in cyber consulting services and our global leadership position was confirmed by Forrester Research who named KPMG as a market leader in 2017. KPMG’s capabilities are also recognized by SWIFT. As a member of SWIFT’s partner ecosystem, KPMG’s specialists are up to date on the latest SWIFT standards.



## SWIFT CSP: KPMG experience and global reach

KPMG is listed as a consultancy partner for SWIFT, providing SWIFT subject matter and cyber expertise



## How we can help your team

As noted above, cybercrime is one of the fastest growing risks, and audit committees and executives are rushing to understand their company's position as it relates to cyber risk management.

KPMG has a dedicated team who can work with your team to help challenge their thinking or assist in determining which attest vehicle best suits your specific needs.

# Contact us

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