SWIFT Customer Security Programme The essentials

What is the	SWIFT Customer Security Programme (CSP)		
SWIFT Customer Security Programme?	The SWIFT CSP focuses on three mutually reinforcing areas. Protecting and securing your local environment (You), preventing and detecting fraud in your commercial relationships (Your counterparts) and continuously sharing information and preparing to defend against future cyber threats (Your community).		
		y responsible for protecting their own environments, nmunity in the fight against cyber-attacks.	
Why is it important?	In response to a number of cyber attacks and breaches throughout 2016, SWIFT has identified 16 mandatory and 11 optional security controls for all its 11,000 customers worldwide. All customers will be asked to attest to meeting the controls, with results shared with counterparts and regulators.		
	Impact		
	Impacts will vary depending on the maturity of the organisation, the design of the local SWIFT environment and the nature of existing controls. Many organisations will need to remediate both technical and process related gaps.		
	Success factors		
	To be successful, organisations must take a thoughtful and systematic approach, requiring collaboration across the three lines of defence, strong leadership and a diverse organised team.		
Cyber security assurance framework		Description – Includes items such as control frequency, who or what performs the action, what action was performed and what action or effect is the result.	
		Components – Includes specific people, process and technology elements associate with the control.	
	Security principles	Validation measures – Include the method by which control design and effectiveness will be	
	Controls objectives	validated, the frequency and associated artefacts.	
	Controls	Owner – Includes information related to the control owner such as name and functional title.	
Timeline	Q2 2017 Control Descripte Publishe Q4 2016 Comment period SWIFT seeks customer feedback on new guidelines		

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SWIFT Customer Security Programme **PwC** capabilities



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SWIFT Customer Security Programme Appendix (1/2)

SWIFT Customer security controls framework overview

This overview section establishes the set of mandatory and advisory security controls. Mandatory security controls build on existing guidance and establish a security baseline. Advisory controls are optional good practices that SWIFT recommends each user implement in their environment.

Objectives	Principles	Controls
ronment	Restrict Internet Access and Protect Critical Systems from General IT Environment	Mandatory
		SWIFT Environment protection – A segregated secure zone safeguards the user's SWIFT infrastructure from compromises and attacks on the broader enterprise and external environments.
		Operating System Privileged Account Control – Access to administrator-level operating system accounts is restricted to the maximum extent possible. Usage is controlled, monitored, and only permitted for relevant activities such as software installation and configuration, maintenance, and emergency activities. At all other times, an account with least privilege access is used.
	Reduce Attack Surface and Vulnerabilities	Mandatory
		Internal data flow security – Confidentiality, integrity, and authentication mechanisms are implemented to protect SWIFT-related application-to-application and operator-to-application data flows.
		Security updates – All hardware and software inside the secure zone and on operator PCs are within the support lifecycle of the vendor, have been upgraded with mandatory software updates, and have had security updates promptly applied.
		System hardening – Security hardening is conducted on all in-scope components.
Env		Advisory
		Back-office data flow security – Confidentiality, integrity, and mutual authentication mechanisms are implemented to protect data flows between back office (or middleware) applications and connecting SWIFT infrastructure components.
		External transmission data protection – Sensitive SWIFT-related data leaving the secure zone is encrypted.
		Operator session confidentiality and integrity – The confidentiality and integrity of interactive operator sessions connecting into the secure zone is safeguarded.
		Vulnerability scanning – Secure zone and operator PC systems are scanned for vulnerabilities using an up-to-date, reputable scanning tool.
		Critical activity outsourcing – Critical outsourced activities are protected, at a minimum, to the same standard of care as if operated within the originating organisation.
		Transaction business controls – Implement RMA controls and transaction detection, prevention and validation controls to restrict transaction activity to within the expected bounds or normal business.
	Physically Secure the Environment	Mandatory
		Physical security – Physical security controls are in place to protect access to sensitive equipment, hosting sites, and storage.



SWIFT Customer Security Programme Appendix (2/2)

Objectives	Principles	Controls
Know and Limit Access	Prevent Compromise of Credentials	Mandatory
		Password policy – All application and operating system accounts enforce passwords with appropriate parameters such as length, complexity, validity, and the number of failed log-in attempts.
		Multi-factor authentication – Multi-factor authentication is used for interactive user access to SWIFT-related applications and operating system accounts.
	Manage Identities and Segregate Privileges	Mandatory
		Logical access control – Accounts are defined according to the security principles of need-to-know access, least privilege, and segregation of duties.
		Token management – Connected hardware authentication tokens are managed appropriately during issuance, revocation, use, and storage.
		Advisory
		Physical and logical password storage – Any recorded passwords for privileged accounts are stored in a protected physical or logical location, with access restricted on a need-to-know basis.
Detect and Respond	Detect Anomalous Activity to Systems or Transaction Records	Mandatory
		Malware protection – Anti-malware software from a reputable vendor is installed and kept up-to-date on all systems.
		Software integrity – A software integrity check is performed at regular intervals on messaging interface, communication interface, and other SWIFT-related applications.
		Database integrity – A database integrity check is performed at regular intervals on databases that record SWIFT transactions.
		Logging and monitoring – Capabilities to detect anomalous activity are implemented, and a process or tool is in place to frequently store and review logs.
		Advisory
		Intrusion detection – Intrusion detection is implemented to detect unauthorised network access and anomalous activity.
tect	Plan for Incident Response and Information Sharing	Mandatory
Det		Cyber incident response planning – The organisation has a defined and tested cyber incident response plan.
		Security training and awareness – Annual security awareness sessions are conducted for all staff members, including role-specific training for SWIFT roles with privileged access.
		Advisory
		Penetration testing – Application, host, and network penetration testing is conducted within the secure zone and on operator PCs.
		Scenario risk assessment – Scenario-driven risk assessments are conducted regularly to improve incident response preparedness and to increase the maturity of the organisation's security programme.

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