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# Swift Compatible Interface Security Conformance Requirements V2025

## Conformance Statement

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This document lists the security requirements that a messaging/communication interface must comply with as per [Swift Compatible Interface Programme Overview](#). These requirements are aligned with the [Swift Customer Security Controls Framework](#) available on [swift.com](https://swift.com)

Revision: August 2024

# Significant Changes

This section lists all significant changes to the content of the Swift Compatible Interface - Security Conformance Requirements since v2024 of the Security Conformance Requirements for interface providers.

The table does not include editorial changes that Swift makes to improve the usability and comprehension of the document.

<b>New and updated information since the v2024 edition of the Swift Compatible Interface – Security Conformance Requirements</b>	<b>Location</b>
Control 2.1 - 'Internal Data Flow security' accompanying notes added	Page 11
Control 2.5A - 'External Transmission Data Protection' accompanying notes added	Page 12
Control 2.11A – 'RMA Business Controls' accompanying notes updated	Page 13
Control 4.2 – 'Multi-factor Authentication'- accompanying notes added	Page 14

# 1 General Information

## 1.1 Supplier

Full name of the organisation that has registered this interface product and the name of the author of this Conformance Statement.

Organisation	
Author	
Date	

## 1.2 Product Information

The name and version numbers of the interface product to which this compliance and conformance claim applies.

Product Name	
Product Version Number	
Product Functionality	<b>FIN</b> <b>RMA</b> <b>FileAct Store-and-Forward</b> <b>FileAct Real-time</b> <b>InterAct Store-and-Forward</b> <b>InterAct Real-time</b> <b>Communication Interface</b>

Note \*: If your messaging/communication interface has different names for the different protocols it supports, then please provide the names accordingly.

Note \*\*: In case several versions of your messaging/communication interface are used in Production by your customers, please list all versions compliant with v2025 of the Security Conformance Requirements for interface providers.

## 1.3 Operational Environment

The hardware platform(s) and/or software platforms for which this product's performance is guaranteed.

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Hardware Platform on which  
product is guaranteed

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Software Platform on which  
product is guaranteed

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## 2 Conformance Requirements

The security conformance requirements document lists the security requirements that a messaging/communication interface must comply with. These requirements are aligned with the corresponding [Swift Customer Security Controls Framework \(CSCF\)](#) version.

Swift ensures that CSCF controls updates are typically announced mid-year, with attestation and compliance by Swift users against the mandatory controls outlined in this release by the end of the version year (for instance, end 2025 for the CSCF v2025). In line with the CSCF change management process, the corresponding security conformance requirements is also announced mid-year.

Messaging/communication interface providers must attest their compliance to v2025 of the security conformance requirements by mid-2025 (self-attested). The customer confirmation needs to be completed by end 2025 (compatible). Customer confirmation of the interface provider self-attestation can be achieved either after the installation of the product, by demo, or any other means that enables the customer to evaluate correctness of the interface provider self-attestation.

The tables below identify the mandatory and optional elements that an interface product may support.

- Column **Feature** identifies the feature.
- Column **Ref** contains, when relevant, the reference to the relevant control in the Customer Security Framework document
- Column **Note** contains references to notes which describe the feature in more detail and where appropriate gives reference to the specification source.
- Column **M/A** describes whether the feature is Mandatory or Advisory.
- The next columns (one per interface protocol type) are marked “E”, “S” or “N” to indicate how the feature is supported, where:
  - “E” means that the feature is embedded in the software,
  - “S” means that the feature is supported by the software (e.g., by 3<sup>rd</sup>-party solution), and
  - “N” means the feature is not supported.
  - “N/A” indicates that this interface type is not supported by the product, or the requirement is not applicable to the given protocol.

The following components are listed:

- Messaging Interface: FIN, RMA, FileAct Store-and-forward (FA SnF), FileAct Real-time (FA RT), InterAct Store-and-forward (IA SnF), InterAct Real-time (IA RT) protocols.
 

Note: Although there is no protocol compliance validation for InterAct Real-time, interface providers are requested to confirm their compliance if their messaging interface supports this protocol.
- Communication Interface (Comm Intf).
- *Customer Confirmation* row to be completed by the customer, after the interface provider self-attestation.

## 2.1 Configuration Reporting

The customer must be able to easily report on the different requirements to help evaluate the configurations, and if aligned with the CSP security guidelines. Good reporting on the security configurations can benefit the whole Swift user community. The messaging/communication interface must implement a Configuration Reporting function listing its different settings in a report according to the template/checklist listed below.

Feature	Ref	Note	Mandatory/ Advisory	Messaging Interface	Communication Interface
Configuration Reporting function	N/A	N/A	M		

The list below describes the checks that should be part of the configuration reporting function.

For some checks it is given the details of minimum information that is expected. For other test cases, it is up to the interface provider to decide what can be displayed related to the specific control.

Running the configuration reporting should be restricted to privileged operators.

- General
  - Product name including version
  - Instance name
  - Hostname
  - Operating System
  - Date
- Output per each control (indicate control nr per each check):
  - 1.1 for information, if feasible
  - 1.2 for information, if feasible
  - 1.4 include test to connect to internet
  - 2.1 include Confidentiality, Integrity and Authenticity (CIA) testing of all connections to/from communication interface
  - 2.2 display information of latest security update
  - 2.4 include CIA testing of all Back Office connections
  - 2.5 for information, if feasible
  - 2.6 include CIA testing of all operators connections
  - 2.9 display information of LTs automated connections
  - 4.1 include detailed password settings review
  - 4.2 include testing of multi-factor authentication (MFA) (if embedded)
  - 5.1 include detailed 4 eyes review
  - 6.2 include testing of software integrity check (if embedded)
  - 6.3 include testing of database integrity check (if embedded)

- 6.4 display information of logging configuration

The output can either be:

- For information: the assessor or administrator has to evaluate the displayed summary of information. The result should include:

- If the test case could be run (success/failure/not applicable)
- The summary of relevant information for the control

Example: the security update test shows that the current installed version is 13.1. However, it is not possible for the software to know which version should be installed on that date, therefore the output just displays the information and the reader will have to interpret it.

- Test case: the information is automatically checked against guidelines. The test case should have a rating to indicate:

- If the test case could be run (success/failure/not applicable)
- The result of the test against guidelines (such as OK, Warning - deviation)

Example: the security update test compares the roles assigned to a certain operator and tells whether the operator would be allowed to create and approve a transaction with such permissions.

## 2.2 Restrict Internet Access & Protect Critical Systems from General IT Environment

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Swift Environment Protection	1.1	A1	M							
<b>Customer Confirmation</b>										
Operating System Privileged Account Control	1.2	A2	M							
<b>Customer Confirmation</b>										
Restriction of Internet Access	1.4	A3 & A4	M							
<b>Customer Confirmation</b>										

### Notes:

- A1 The messaging/communication interface must support the deployment in a secure zone and allow customers to respond to the following requirements. Software in the secure zone can only be used to operate, monitor and manage the secure zone, and includes also the Swift-related components (messaging interface, communication interface, browser-based GUI, SwiftNet Link, Hardware Security Module (HSM), jump server, and any applicable operator PCs dedicated to the operation or administration of their Swift infrastructure).

Interactions with systems outside the secure zone must be limited to:

- Bi-directional communication with back-office applications
- Outbound logging data

This interaction must be controlled by transport layer stateful firewalls possibly in combination with ACLs and application firewalls.

Operators can access the secure zone systems:

- From dedicated operator PCs within the secure zone on which internet access is highly restricted and ideally blocked
- From a general-purpose operator PC to the secure zone via a jump server located within the secure zone (using e.g., a Citrix-type solution or Microsoft Terminal Server) that does not have internet access.
- From a general-purpose operator PC, if they only access the messaging or communication interface by means of a browser-based GUI that is located in the secure zone and is logically separated from the messaging and communication interface. See the point A4 below for specific security controls under this set-up that cannot be used for operating system administration activities

- A2 The messaging/communication interface must restrict to the maximum extent possible the use of administrator-level operating system accounts, unless needed to install, configure, maintain, operate and support emergency activities.



- A3 The messaging/communication interface must restrict to the maximum extent possible the access to the internet. If internet access is needed from the secure zone, access should be granted only to allow-listed URL destinations through a proxy with content inspection and adequate blocking/filtering controls. Connections are only permitted if initiated in the outbound direction.
- A4 Control internet access provided on the general-purpose operator PCs used to access a messaging or communication interface through a browser-based GUI, through one of the following options:
1. Internet access through a remote desktop or virtual machine solution
  2. Internet access from the general-purpose operator PC to only allow-listed URL destinations through a proxy with content inspection, in combination with adequate blocking/filtering controls and permitting only outbound initiated connections.
  3. Internet access from the general-purpose operator PC through a Web Gateway (with content inspection, in combination with blocking/filtering controls) using maintained deny-listed URL destinations

## 2.3 Reduce Attack Surface and Vulnerabilities

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Internal Data Flow Security	2.1	B1	M							
Alliance Gateway, LAU for relaxed Message Partners		B1A	M							
<b>Customer Confirmation</b>										
Security Updates	2.2	B2	M							
<b>Customer Confirmation</b>										
System Hardening	2.3	B3	M							
<b>Customer Confirmation</b>										
Back Office Data Flow Security	2.4A	B4	M							
<b>Customer Confirmation</b>										
External Transmission Data Protection	2.5A	B7	M							
<b>Customer Confirmation</b>										
User Session Confidentiality and Integrity	2.6	B1 & B5	M							
<b>Customer Confirmation</b>										
Transaction Business Controls	2.9	B6	M							
<b>Customer Confirmation</b>										
Application Hardening	2.10	B8	M							
<b>Customer Confirmation</b>										
RMA Business Controls	2.11 A	B9	M							
<b>Customer Confirmation</b>										

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**Notes**

- B1 The messaging/communication interface must use confidentiality, integrity, and mutual authentication mechanisms (such as 2-way TLS, or LAU in combination with a confidentiality protection) to protect data flows with other systems in the secure zone. This includes following data flows:
- GUI to messaging interface
  - Local RMA application to messaging interface
  - GUI to communication interface
  - Messaging interface to communication interface

Secure protocols use current, commonly accepted cryptographic algorithms (for example, AES, ECDHE), with key lengths in accordance with current best practices. More guidelines on cryptographic algorithms can be found in Swift Knowledge Base TIP 5021566.

The communication between the Operator PC and the messaging/communication interface is protected using a secure mechanism (for example, one-way TLS) to support the confidentiality, integrity and authentication of the connection.

This applies to user sessions (GUI activity by normal user) and must be applied to sessions running within the secure zone as well as sessions from outside the secure zone.

The messaging/communication interface must offer or support protection of interactive user sessions through a secure protocol (for example https or TLS in line with the above guidelines).

The messaging/communication interface must offer or support appropriate solutions for credential storage:  
 Credentials and private or bilateral (cryptographic) keys used, and usually stored, by the applications to secure the flows are protected. This can be achieved through a (large spectrum of protection methods, from definition and usage of secure coding guidelines to the use of specific solutions such as Key Management Service or System (KMS), can be envisaged secured based on the user's risk management).

- B1A LAU is a mandatory requirement for relaxed Message Partners. This functionality must have already been implemented since Q2 2018.
- B2 The messaging/communication interface must be updated to remain in sync with the latest versions of security updates (such as security patch to remedy Java vulnerabilities).  
 The messaging/communication interface must be updated if a security problem is found in the software or its configuration. The legitimate source and integrity of the messaging/communication interface (security) updates/patches are ensured by the provider for the user to be able to validate them when applying them.
- B3 To maintain a proper operational state for messaging/communication interfaces in a hardening environment, interface providers have to provide its customers guidance on how to configure its system in a hardening environment or provide any overruling application-specific configuration settings.

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- The messaging/communication interface must not rely on the presence of external ports (for example, USB serial bus) on user PCs and server systems, except for software maintenance purposes or to allow normal messaging operations such as signing of messages or user authentication via PKI USB tokens.
- B4 The messaging/communication interface must offer or support the means to ensure confidentiality, integrity, and mutual authentication of the data exchanged between the back office or middleware and itself. This protection must cover man-in-the-middle risks, unintended disclosure, modification, and access to the data while in transit.
- For example, this can be implemented using mechanisms such as “LAU or another message-based authentication solution such as XML-DSig in combination with a confidentiality protection”, 2-way TLS, authenticated API calls over TLS, or AES GCM Authentication Encryption.
- B5 This requirement relates to the operator scope documented under B1 above. In addition, operator sessions must have a configurable inactivity lock-out feature that limits the session to the minimal timeframe necessary to perform business-as-usual duties.
- B6 The messaging/communication interface must offer parameterised restrictions that allow control of business transactions. This can consist e.g. (but is not limited to) of 4-eyes implementation for Swift messaging, allowed business transaction hours, session number control. It should also offer reporting facilities (such as summary of transactions sent/received facilitating end of day or period reconciliation).
- B7 The messaging/communication interface must offer or support the means to ensure confidentiality of the data extracted or replicated for back-up, recovery of further off-line processing.
- When functionalities or tools to extract messaging data are provided, mechanism allowing encryption of the data at rest should be provided using commonly accepted cryptographic algorithms (for example, AES, ECDHE), with key lengths in accordance with current best practices based on passphrase provided by the end-user. More guidelines on cryptographic algorithms can be found in Swift Knowledge Base TIP 5021566
- Mechanism to decrypt the data could be provided or at least the procedure explained.
- If data encryption cannot be ensured, at a minimum:
- the transmission of the data is protected by implementing secure flows including between messaging interfaces or underlying databases
  - the users responsibilities must be clearly identified in the documentation and basic steps highlighted to protect such replicated or extracted data.
- Credentials and private or bilateral (cryptographic) keys used, and usually stored, by the applications to secure the flows are protected. This can be achieved through a (large spectrum of protection methods, from definition and usage of secure coding guidelines to the use of specific solutions such as Key Management Service or System (KMS), can be envisaged secured based on the user’s risk management).
- B8 To maintain a proper operational state for messaging/communication interfaces in a hardened environment, interface providers have to provide its customers guidance with application-specific configuration settings on how to securely configure their interface while maintaining the CSP compliance.

- B9 The RMA authorisations are now centrally managed through the RMA Portal. Messaging/communication interfaces must offer parameterised filters to allow transaction activity restrictions to effective business counterparties.

## 2.4 Physically Secure the Environment

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Physical Security	3.1	C1	M							
<b>Customer Confirmation</b>										

### Notes

- C1 Implementing physical security controls protects against insider and external threats, and reduces opportunistic attacks enabled by access to physical systems.

## 2.5 Prevent Compromise of Credentials

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Password Policy	4.1	D1	M							
<b>Customer Confirmation</b>										
Multi-factor Authentication	4.2	D2	M							
<b>Customer Confirmation</b>										

### Notes

- D1 The messaging/communication interface must allow the definition - and enforce following password policy parameters:
- Password expiration
  - Password length, composition, complexity, and other restrictions
  - Password reuse

- Lockout after failed authentication attempts, and remedy
- Password requirements may be modified to accommodate specific use cases:
  - In combination with a second factor (for example, one-time password)
  - Authentication target (for example, operating system, application, mobile device, token)
  - Type of account (general operator, privileged operator, application-to-application account or logical authentication keys).

More good practice guidelines on password parameter and when relevant Personal Identification Number (PIN) settings can be found in Swift Knowledge Base TIP 5021567 and 5022038.

- D2 The messaging/communication interface must support (either embedded or by external software) multi-factor authentication for its end-user login. The authentication factors presented are individually assigned and support individual accountability of access to the messaging interface. The solution should be designed considering NIST SP 800-63B Authenticator Assurance Level 2 and ideally Level 3 as guidance.

## 2.6 Manage Identities and Separate Privileges

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Logical Access Control	5.1	E1	M							
<b>Customer Confirmation</b>										

### Notes

- E1 The messaging/communication interface must support the design that related accounts are defined according to the security principles of need-to-know access, least privilege, separation of duties and 4 eyes principles:
- Need-to-know (for example, an account allowing for system installation and update should have access to the information, files and system resources needed for this specific task, but should not have access to the business data).
  - Least-privilege: the messaging/communication interface should allow setting up the accounts in a way that all privileges can be tailored to individual needs. Accounts should then be granted only the privileges needed for normal routine operations. Additional privileges can be granted on a temporary basis.

Separation of duties and 4-eyes principles must be enforced for sensitive operations such as user management, security configuration, transaction submission and approval etc.

Items that need to be protected by separation of duties (please note the list may not be comprehensive):

- Creation/modification of flows towards other applications, such as but not limited to back office, middleware, other messaging/communication interface, SNL

- Operators creation/modification, operator profiles creation / modification
- Security configuration, such as but not limited to application passwords, certificates, LAU keys, LT configuration, authentication server
- Messaging (FIN/RMA) operations, such as but not limited to message creation, modification, verification, approval

## 2.7 Detect Anomalous Activity to Systems or Transaction Records

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Malware Protection	6.1	F1	M							
<i>Customer Confirmation</i>										
Software Integrity	6.2	F2	M							
<i>Customer Confirmation</i>										
Database Integrity	6.3	F3	M							
<i>Customer Confirmation</i>										
Logging and Monitoring	6.4	F4	M							
<i>Customer Confirmation</i>										

### Notes

- F1 The messaging/communication interface must support anti-malware software to be running on its server. Normal operations of the messaging interface software should not result in malware alerts.
- F2 The messaging/communication interface must support software integrity validation (either embedded or by external software of all of its software components. Such software integrity checks should be conducted upon start-up, and additionally at least once per day. Software integrity checks provide a detective control against unexpected modification to operational software.
- In addition, integrity check of downloaded software is conducted via verification of the checksum at the time of its deployment.
- F3 Applies to messaging interfaces only. The messaging interface must embed database integrity validation when the database is embedded or support this validation in case of hosted database components. The integrity check must ensure record-level integrity and must confirm that there are no gaps in sequential transaction numbering.
- F4 The messaging/communication interface must be able to log any detailed abnormal system behaviour (such as messages outside normal business hours, multiple failed login attempts, and authentication errors).
- Events must be logged

## Swift Compatible Interface Programme

- It must be possible to keep at least 12 months of log files (can be stored on a separate system).
- It must be possible to monitor these log files online (i.e., they are kept in the system) or to consult them offline (i.e., they are kept in an archive system).
- Automated monitoring with alerting can be implemented.
- Integration of logs into a centralised logging system may be provided.

Logs must provide traceability of account usage to the appropriate individual. Log files must be sufficiently protected so that only a need-to-know account profile has access.

## 2.8 Plan for Incident Response and Information Sharing

Feature	Ref	Note	Mandatory/ Advisory	FIN	RMA	FA SnF	FA RT	IA SnF	IA RT	Comm Int
Cyber Incident Response Planning	7.1	G1	M							
<b>Customer Confirmation</b>										
Penetration Testing	7.3 A	G2	M							
<b>Customer Confirmation</b>										

### Notes

- G1 The messaging/communication interface provider must inform all its customers in case of a cyber-incident with its software about the threat, and about the remedying measures that can be taken by its customers (such as temporarily disable specific functionalities, install a patch, ...).  
In addition, the messaging/communication interface provider must inform the Swift Customer Support Centre.  
Only "S" (Supported) is applicable to this requirement.
- G2 The messaging/communication interface providers perform secure code review and penetration testing to validate the operational security configuration and identity security gaps as part of their software development life cycle.

Additional informative references:

- ISO27002 (2022): requirements 8.29 that validates secure development life cycle (8.25), application security requirements (8.26), secure system architecture and engineering principles (8.27) and secure coding (8.28) are effective
- PCI-DSS 4.0: control 11.4 family asking pen testing is regularly performed supporting secure development (PCI-DSS control 6.2) and addressing found vulnerabilities (PCI-DSS control 6.3)



## Appendix A : Test Report

For each supported interface protocol type, the interface provider should complete this report after completion of a customer Confirmation. The report should be returned to Swift via following email: [swiftnet.cbt.qualification@swift.com](mailto:swiftnet.cbt.qualification@swift.com)

Customer confirmation of the interface provider self-attestation can be achieved either after the installation of the product, by demo, or any other means that enables the customer to evaluate correctness of the interface provider self-attestation.

Company Name	
PIC-8	
Company Contact (email)	
Product Name and version number	
Interface Protocol Type	
Reference Bank Name	
BIC-8	
Bank Contact (email)	
Brief overview of test configuration (platform, OS, middleware, etc.)	
Comments on the Confirmation	

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