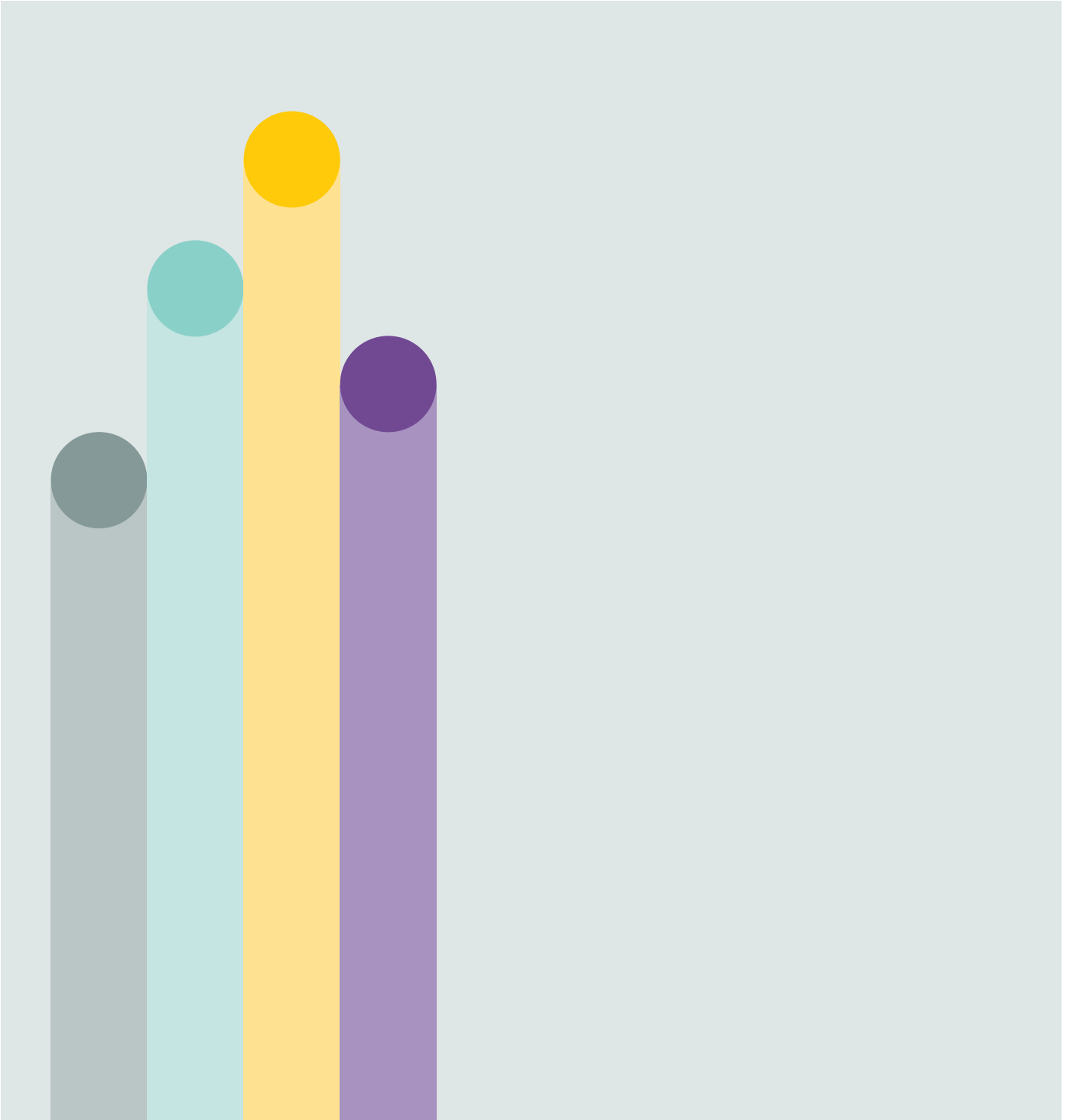




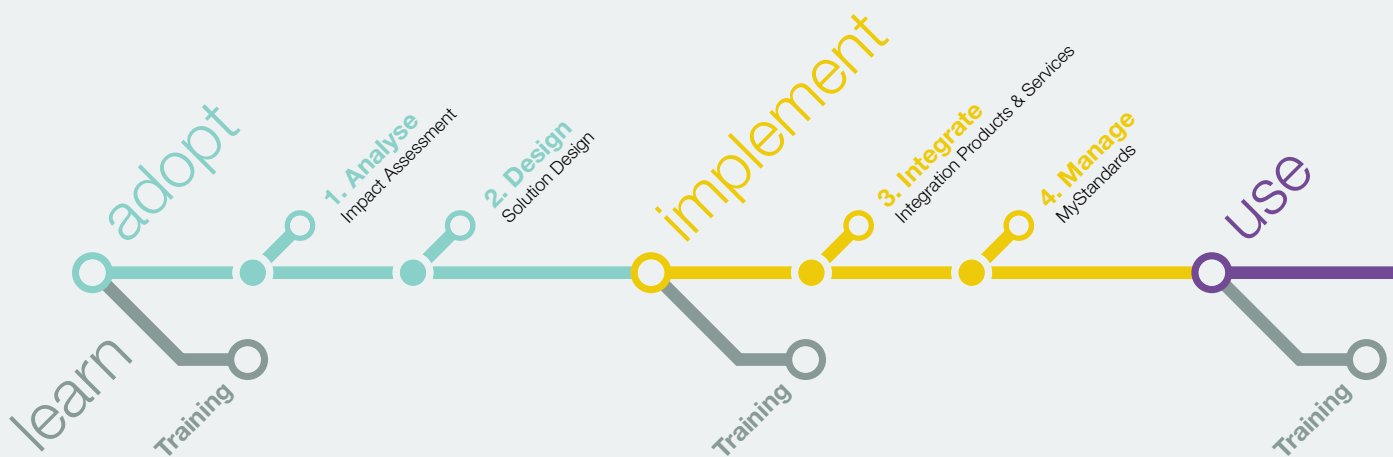
**Building an
ISO 20022 implementation roadmap**
How can SWIFT help?



Building an ISO 20022 implementation roadmap

As more and more financial market infrastructures are moving to ISO 20022 across several business areas (e.g. Fedwire, TCH, CNAPS, CHAPS, T2, T2S, Euroclear, DTCC, NSD, ASX, to mention a few), the need to prepare and plan an implementation roadmap for these – and other - ISO 20022 initiatives continues to grow.

Which ISO 20022 initiatives will impact your organisation – and how? What will be the impact on your business applications, shared services and infrastructure? What will your future technology model look like? Which implementation options are the right ones for your institution? How can you ensure all stakeholders in your organisation are properly informed and ready to exchange payment or securities transactions using ISO 20022?



How can SWIFT help?

SWIFT has a wealth of ISO 20022 experience and has packaged this deep expertise into a unique combination of specialised tools, products and services that share best practice, increase automation and drive efficiencies, providing a one-stop-shop for all your ISO 20022-related requirements, to manage your project end-to-end.

Benefits

Rely on trusted products and services to support you from start-to-finish

Benefit from unrivalled ISO 20022 standards knowledge and implementation experience

Reduce risk and cost to integrate ISO 20022 in your financial institution

Training

An ISO 20022 training solution for everyone, where you want it, when you need it.

Ensuring your business, technical and operations staff has a good understanding of the ISO 20022 environment is key to deliver your ISO 20022 roadmap accurately and effectively.

SWIFT provides a range of solutions to build up their skills effectively and efficiently.

SWIFTSmart is SWIFT's eLearning experience. It is available from any SWIFT user desktop, does not require any installation, and provides unlimited access to over 200 individual courses and videos in multiple languages, as part of your annual SWIFT fee.

You can leverage SWIFTSmart to build up your understanding of basic or more advanced ISO 20022 concepts by following at your own pace our interactive eLearning modules. We provide a range of trainings available at your fingertips. Examples include:

- Introduction to ISO 20022
- Introduction to Standards MX
- Introduction to securities Settlement
- Instructions, status and confirmation
- Allegements Securities reporting and reconciliation

Apart from our eLearning offering included in SWIFTSmart, you can also request a tailored solution. Tailored learnings are expertly designed to match your requirements, using a combination of theoretical overviews and hands-on exercises, and are delivered onsite to optimise learning efficiency.

Explore **SWIFT's Training catalogue** to select your preferred training package: for example ISO 20022 Messages for Corporate Actions or ISO 20022 Messages for Securities Settlement and Management. Alternatively, contact us to draw from our experience with ISO 20022 and draft your personalised ISO 20022 training.

Benefits

Flexible training offers to meet your requirements

ISO 20022 knowledge from the source

Reduce cost and minimise risk through clear understanding

1. Analyse

The ISO 20022 Impact Assessment Service

Ensuring you take an informed implementation decision.

In order to make an informed decision on the best implementation approach for your institution, you will need to develop a holistic view of ISO 20022 plans, regulations and projects, based on accurate information and in-depth knowledge. You will need to perform a business analysis that identifies your current and projected ISO 20022 requirements, and assess the impact on technology as well. This reveals to be a complex, time-consuming task.

SWIFT's ISO 20022 impact assessment service supports you in building your future-proof ISO 20022 implementation roadmap. It provides you with:

- A **customised ISO 20022 landscape** for your organisation, summarising which market infrastructures you need to support by when, as well as which customer requirements you may need/want to support (summarising related flows, functionalities & message types).
- A **business and technology assessment**, that comprises an analysis of your 'as is' operational model, looking at operational flows and existing applications that may be affected, as well as new capabilities that may be required.
- A **description of the 'to be' business architecture and recommended implementation roadmap** tailored to the context of your organisation.

Benefits

Take an informed implementation decision, customised to your needs

Rely on trusted advice, based on extensive experience and standards knowledge from the source

Provide a solid foundation for a cost-effective and efficient implementation, reducing risk and cost

2. Design

The ISO 20022 Solution Design Service

Ensuring your ISO 20022 infrastructure meets your current and future needs.

Once you understand the impact that ISO 20022 will have on your organisation you want to take a holistic look at your enterprise architecture. The modular solution design service will look at each of the 4 layers of such architecture and provides you with specifications of your future ISO 20022 messaging infrastructure:

Business Layer: analyses how process changes can be implemented throughout the different systems, and recommends an appropriate governance mechanism.

Data Layer: harmonizes and standardizes the data model used so that all applications build on the same concepts.

Applications Layer: ensures the changes are implemented in the right place, balancing between updating middleware systems and modifying back-office systems.

Technology Layer: puts in place the appropriate technological solutions to transport, store and process all data.

Benefits

Prepare your architecture for the upcoming ISO 20022 projects

Pragmatic approach, scalable to meet your needs

Results in a multi-year implementation roadmap

3. Integrate

An integration solution that meets all ISO 20022 needs.

Whether you decide to integrate ISO 20022 natively in your environment, or opt for a tactical, translation-based approach, SWIFT's range of integration products and services have ISO 20022 inside and a proven track-record to simplify integration and ensure peace of mind.

SWIFT also provides tools to enable message transformation in your own technical environment.

Alliance Messaging Hub (AMH)

SWIFT's Advanced Messaging Hub to support your full ISO 20022 integration needs

AMH is a flexible, multi-network, high-volume financial messaging solution that can be tailored to a customer's unique specification. It is ideal for those who are looking for a highly available, customisable and scalable platform to meet their operational requirements.

The AMH technology is modular and can handle in parallel, financial transaction messages for various networks, enabling extensive throughput combined with sophisticated data management. The end result is higher straight through processing rates with increased security, agility and efficiency. With its variety of network adapters, its Business Process Management (BPM) tool, and open standards support, AMH allows orchestration of all your messaging flows, in ISO 20022 or other formats, allowing creation, validation, enrichment, transformation and routing between different messaging services seamlessly. It is the state-of-the art strategic messaging platform for future development.

Benefits

Effective in a multi-standards world

Supports multi-network users

Flexible, scalable and customisable platform

Alliance Access Integration platform and SWIFT Integration Layer

Integrating ISO 20022 efficiently with Alliance Access and Alliance Lite2

Alliance Access Integration Platform

is a state-of-the-art integration platform, which runs inside Alliance Access. This reliable system enables communication with the SWIFT network and between back-office systems internally. It can enable your systems to interact using different message formats and can contact other systems for data validation and enrichment.

It re-uses many Access features, reducing both the footprint and learning curve within your organisation. As a result, it has the potential to deliver substantial cost savings.

SWIFT Integration Layer makes a cloud connection to SWIFT possible to more business applications and more businesses than ever before. It is the essential bridge between your internal systems and Alliance Lite2, for connecting to SWIFT in the cloud. SWIFT Integration Layer also has the capability to connect to Alliance Access allowing you to segregate your integration layer from your messaging layer.

Benefits

A light-weight yet powerful integration platform for ISO 20022

Maximises the use of Alliance Access features

Reduces footprint and the total cost of ownership (TCO)

4. Manage

MyStandards

A standards management platform designed to make ISO 2022 simple.

MyStandards is a collaborative web platform, which centralizes all standards-related information in a simple way.

Today, the platform already stores a variety of global market practice guidelines, and specific content for interacting with Market Infrastructure (MI) communities and regulators (such as T2S, CLS, Euroclear, VP Securities, Federal Reserve, HKICL, SARB, BankservAfrica, ESMA ...) covering both payments and securities segments. Some of the world largest payment MIs (Fedwire, The Clearing House, TARGET2, EBA EURO1/STEP1) already announced their intention to use MyStandards as a support for their future ISO 2022 specifications.

Anyone can browse the base standards and published market practices on-line according to the permission levels set by the publisher, and generate valuable off-line PDF and Excel documentation.

If you become a MyStandards Premium license subscriber, MyStandards can also help you to:

- Compare and analyse different versions of a message
- Compare and analyse ISO 2022 implementation guidelines of multiple market infrastructures
- Create your own internal and customer usage guidelines for ISO 2022 and FIN MT
- Offer your customers a streamlined onboarding experience

The screenshot displays the MyStandards platform interface. At the top, there is a navigation bar with the MyStandards logo and search functionality. Below this, a document header shows the title 'August2017_FIToFICustomerCreditTransferV06_pacs.008.001.06' and a search bar. The main content area is divided into two panes. The left pane shows a tree view of document elements, including 'FI To FI Customer Credit Transfer V06 (pacs.008.001.06)', 'Group Header', 'Credit Transfer Transaction Information', 'Supplementary Data', and various 'CrossElementComplexRule' and 'CrossElementSimpleRule' entries. The right pane provides a detailed view of a selected rule, titled 'Rule "Mutually Exclusive"'. This rule states that for each 'FIToFICustomerCreditTransferV06' message, certain elements are mutually exclusive and all must be present. The rule's scope is defined as 'FinancialInstitutionToFinancialInstitutionCustomerCredit Transfer message is sent by the debtor agent to the creditor agent, directly or through other agents and/or a payment clearing and settlement system...'. The XML tag for this rule is identified as 'FIToFICstmrCdtTrf'.

A MyStandards example page illustrating the comparison functionality

Benefits

Reduce time, cost, effort and risk to manage and implement ISO 2022

Share ISO 2022 specifications in a controlled way with your counterparties and provide an excellent user experience

Centralise all your standards information

New pricing for ISO 20022 messages over SWIFTNet: fair and easy to predict.

Longer message size as a consequence of ISO 20022 XML-based syntax should not result into higher cost for those who move from MT to ISO 20022.

SWIFT has therefore adapted and simplified its pricing policy to deliver like-for-like message pricing compared to MT, irrespective of message length:

- You can be confident that moving to the new standard will not inflate the cost of SWIFT messaging.
- You do not need to worry anymore about message size when making messaging cost predictions.

The new grid is made available for MIs which adopt ISO 20022 over SWIFT.

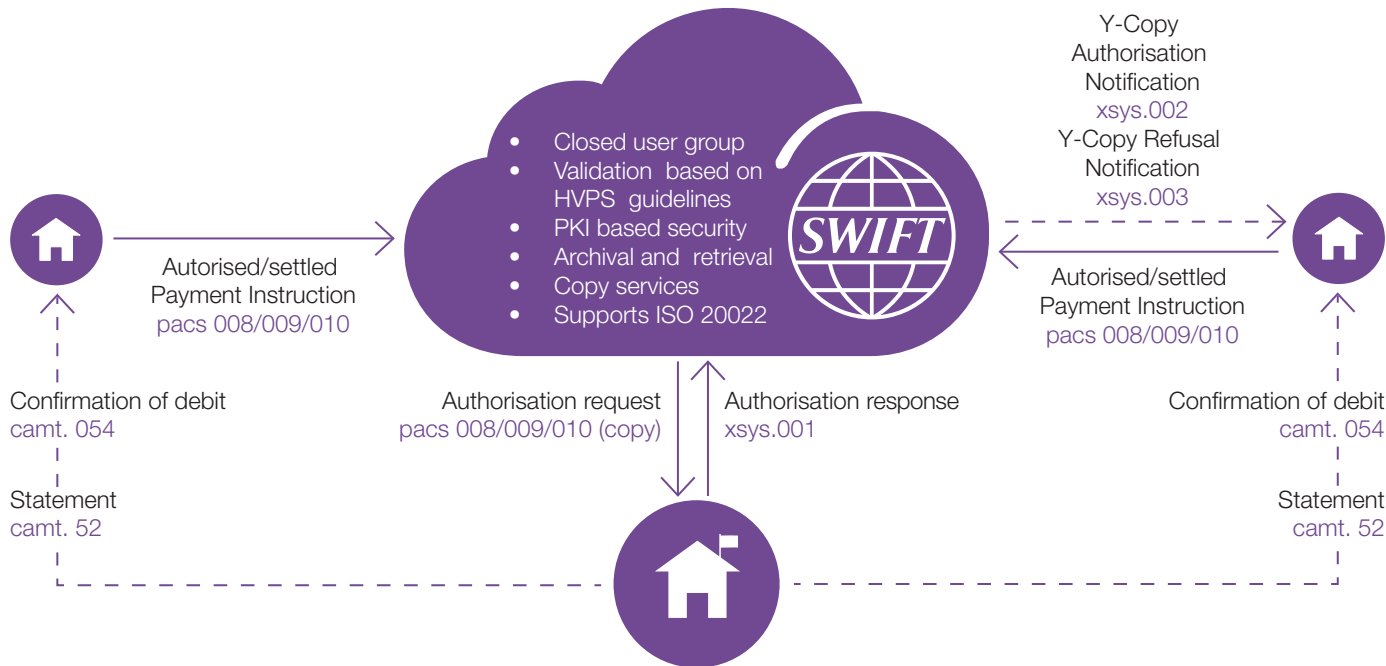
From FIN Copy to SWIFTNet Copy

There are often times when you need to copy a message to a third party. It might be for payments clearing and settlement, collateral management for securities, to meet a regulatory requirement, or inform another department.

For example, most current High Value Payment MIs on SWIFT use SWIFT's FIN messaging service and FIN Y-Copy for central authorization and processing of payments, over the SWIFT network.

SWIFT offers an equivalent to FIN Y-Copy for those systems that decided to adopt ISO 20022. InterAct Store and Forward, together with the SWIFTNet Copy service, allows payments or securities MI systems to exchange and copy their MX-based transactions in the most secure and efficient way.

For example, in the case of High Value Payments systems, reporting flows remain the same as for FINCopy, but are exchanged using ISO 20022 instead of MT messages.



An illustration of how SWIFTNet Y-Copy messaging flows apply, taking the HVP space as an example

From FIN MT to ISO 20022 MX messages – global market practice as a common starting point

ISO 20022 messages are global standards that can be adapted to meet global and specific business needs. The **Payments Market Practice Group** (PMPG) and the **Securities Market Practice Group** (SMPG), in close collaboration with global market practitioners, have developed a set of common global implementation guidelines for the use of ISO 20022 within different contexts. All following guidelines are already available in **MyStandards**:

For high-value payment systems

HVPS and HVPS+, designed to ensure the coherent usage of ISO 20022 standards in the HVPS-space and foster interoperability for the end-to-end payment chain:

- HVPS provides a basis for those willing to migration from FIN to MX and opting for a so-called 'like-for-like' approach, reducing the richer functionality of ISO 20022 to the functionality currently covered by the MT messages.
- HVPS+ provides guidelines for those willing to directly adopt the full functionality of ISO 20022. It can apply in the context of a migration, greenfield project or a combination of both.

For retail payment systems and for Corporate-to-Bank flows

- SEPA SCT Inst (C2B and B2B)
- Real-time payments covering payment initiation, clearing & settlement and investigation handling, sponsored by the ISO Real Time Payments Group (ISO RTPG)
- Common Global Implementation (CGI)

For securities settlement and clearing systems

- Investment Funds
- Settlement and Reconciliation
- Corporate Actions
- Settlement and related services used by TARGET-2-Securities (T2S)
- Collateral management for communications between CCPs and CMs

ISO 20022 Harmonisation

SWIFT has launched an industry programme to ensure a cost effective and seamless adoption of ISO 20022 by Market Infrastructures and their communities

As ISO 20022 implementations proliferate, variability in the ways in which ISO 20022 is deployed, in terms of message versions, market practice rules and release cycles, threatens to undermine its value.

SWIFT Standards' Harmonisation Charter sets out a series of measures designed to drive harmonisation of the rollout of ISO 20022 based on 4 principles:

- Sharing of information
- Adherence to market practice
- Adherence to the message version and release management
- Publishing information on a common and global platform

Today **25 MIs already endorsed the Harmonisation Charter**. Another 11 support the principles of the ISO 20022 harmonisation framework. Together, these 36 FMIs are geographically spread between Americas, EMEA and Asia-Pacific regions and they cover Securities, Payments and FX business areas.

Please consult our dedicated web pages for more information:

- About the Harmonisation programme: www.swift.com/standards/iso-20022-harmonisation-programme
- Endorsing MIs: www.swift.com/standards/iso-20022-harmonisation-programme/endorsing-market-infrastructures

More information

Interested in one or more of these products and services? For more information, please contact [your account manager](#).



About SWIFT

SWIFT is a global member-owned cooperative and the world's leading provider of secure financial messaging services. We provide our community with a platform for messaging and standards for communicating, and we offer products and services to facilitate access and integration, identification, analysis and financial crime compliance.

Our messaging platform, products and services connect more than 11,000 banking and securities organisations, market infrastructures and corporate customers in more than 200 countries and territories, enabling them to communicate securely and exchange standardised financial messages in a reliable way.

As their trusted provider, we facilitate global and local financial flows, support trade and commerce all around the world; we relentlessly pursue operational excellence and continually seek ways to lower costs, reduce risks and eliminate operational inefficiencies.

Headquartered in Belgium, SWIFT's international governance and oversight reinforces the neutral, global character of its cooperative structure. SWIFT's global office network ensures an active presence in all the major financial centres. For more information, visit www.swift.com

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