

CCI via SWIFTNet

*Reliable, secure and low cost connectivity
to Euroclear's Single Platform*



*An excellent
opportunity to leverage
your investment in SWIFT,
adding the 'Euroclear Single
Gateway' to the list
of benefits SWIFT
already delivers*

Benefits

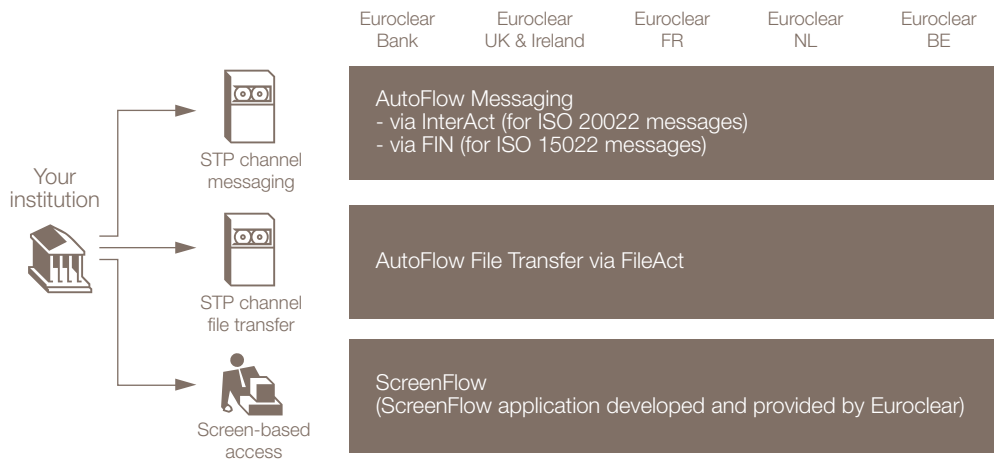
- Business continuity
- Consolidated infrastructure
- Broad business coverage
- Global straight-through processing
- World class support
- Strong partnership
- SWIFT's industry commitment

SWIFTNet is the route to Euroclear's Single Platform through the Common communication Interface (CCI) that is easy to integrate and simple to operate, with minimal time, effort and investment.

The CCI migration is about business and standards harmonisation. Using SWIFT to access the Euroclear's Single Platform will allow you to re-use the same messaging services and standards as to access other counterparties and Market Infrastructures.

Connecting to CCI via SWIFTNet is an excellent opportunity to leverage your investment in SWIFT, adding the 'Euroclear Single Gateway' to the list of benefits SWIFT already delivers:

- Over 30 years of experience in secure messaging services
- The highest availability, reliability and security rate in the industry
- Reduced costs through a unique customer infrastructure serving all business areas
- Connectivity to over 8,300 financial institutions and all major (I)CSDs
- Business expertise to help you to increase your current automation level
- Top rating 24/7 support
- Strong partnership with leading vendors worldwide
- Decrease your total cost of ownership



▲ The three CCI communication channels

Your benefits

- Business continuity:
Risk mitigation is your greatest concern when facing the CCI migration. SWIFT has over 30 years of experience in secure messaging services. With SWIFT at the core of your CCI migration, you can take for granted everything about SWIFT that you value: security, reliability, resilience, and availability.
- Consolidated infrastructure:
CCI over SWIFTNet allows you to leverage your investment made in SWIFT. With minimal time, effort and investment, you can be ready for the migration. This removes the burden and high cost of developing and maintaining proprietary solutions for other areas of your business.
- Broad business coverage:
When combined with our global messaging network of over 8,300 financial institutions, including all major (I)CSDs. Thanks to this interoperability, you can remain in control of your settlement and corporate action business.

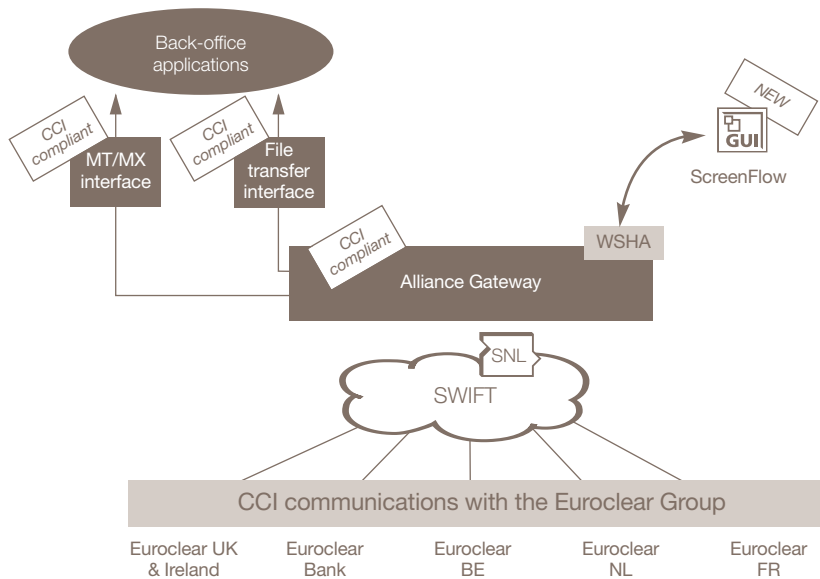
- Global Straight-Through Processing:
Thanks to its role as standard setting body and to its intimacy with its community, SWIFT has an in-depth experience in the securities market and can help you rationalize your processes, so as to maximise your business efficiency and decrease your migration related costs.
- World class support:
SWIFT's support centres are available 24x7 and regularly win "Customer Relationship Excellence" awards. In addition, we have built on our experience with customer migrations, and set-up a Euroclear migration handholding programme from which you will benefit at no extra cost.
- Strong partnership:
From service bureaux to application providers and integration partners, SWIFT works with over 300 partners worldwide to ensure small and larger institutions to benefit from a complete and competitive solution for your CCI migration.
- SWIFT's industry commitment:
As industry franchise, SWIFT is committed to serve the industry. In order to maximise your SWIFT benefit, include CCI over SWIFTNet in your global SWIFT scheme and benefit from the Fixed Fee Programme and FIN bulking to decrease your global total cost of ownership.

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“In a world of ever-changing market requirements, financial institutions increasingly need a strong, reliable partner. CCI via SWIFTNet bears the SWIFT brand: security, reliability, and a guarantee to evolve in line with industry requirements.”

Charles Bichemin, IT Architect, Société Générale Securities Services"

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^ Interfaces required for CCI communications

Connecting to CCI via SWIFTNet

- Re-use your connectivity: Alliance Gateway and Alliance Starter Set.
- Leverage SWIFT's messaging protocols: FIN, InterAct and FileAct.
- CCI communications via three channels:
 - AutoFlow Messaging
 - AutoFlow File Transfer
 - ScreenFlow
- Customised connectivity solutions for small to large users
- Testing platform
- SWIFT's Business Assessment Programme

A single gateway

Accessing Euroclear's Single Platform with CCI via SWIFTNet is made easy through the use of SWIFT's well established products: Alliance Gateway and Alliance Starter Set. Either product can be re used as a single gateway for CCI, allowing a simple and efficient solution, meeting the requirements of small and large users.

Messaging

CCI communications is possible via three channels:

- AutoFlow Messaging, using FIN and InterAct (based on ISO 15022 and 20022 messaging)
- AutoFlow File Transfer, using FileAct (based on ISO 15022 and ISO 20022 message standards).
- ScreenFlow, using InterAct and FileAct. This Euroclear GUI will connect through a Alliance Gateway equipped with a Web services Host Adapter (WSHA).

A range of offers for smaller users without security compromise.

- Service bureaux: SWIFT works hand in hand with service bureaux allowing you to outsource your connectivity to the Euroclear Single Platform.
- Internet connectivity and SWIFTNet kits: SWIFT supports internet local loop connections as economical access to CCI over SWIFTNet. When combined with the SWIFTNet kits, providing everything a new customer requires to go live on SWIFTNet in one single packaged, economical solution for your CCI migration.

SWIFT guarantees the same level of service and support for these services, and offers a solution which can be re-used for multiple business areas in your institution.

Testing facilities

SWIFT provides a dedicated test and training environment allowing to shield fully your production environment.

Re-use of SWIFT's messaging protocols

In order to allow interoperability and ease of implementation, you can re-use SWIFT's messaging protocols to connect to Euroclear. SWIFT provides a protocol translation from ISO standards sent over FIN or InterAct to Euroclear's protocol, AS/2. As such, you do not need to support Euroclear's protocol locally, thereby reducing project and integration costs.

Message storage and archival

SWIFT provides a centralised storage of message and files on the SWIFT CCI gateway. Additionally, message signatures and message digest are sent to Euroclear for long term (13 years) archival. At customer locations, messages are securely archived in the Alliance archival files and the necessary management tools are provided by SWIFT for operational management.

Business Assessment Programme

SWIFT's Business Assessment Programme provides dedicated teams of experienced consultants to analyse your business flows and your infrastructure. Their recommendations will help you reduce your total cost of ownership, lower your operational and reputational risk and identify opportunities for business growth.

Technical architecture and operational requirements

- FIN interface (Alliance Access)
- Alliance Gateway or Alliance Starter Set
- WSHA (Web Services Host Adapter).
- Public Key Infrastructure (PKI) certificates and Hardware Security Modules (HSM)

Technical requirements

The graph above shows the interfaces required for your CCI communications:

- AutoFlow Messaging: requires an interface capable of handling both MT (ISO 15022) and MX (ISO 20022) messages such as Alliance Access.
- AutoFlow File Transfer: requires a file transfer application connected to your Alliance Gateway. This could be FTA, your FIN interface (check with your FIN interface vendor), or another product.
- Manual communications via ScreenFlow (GUI) will be provided by Euroclear. To communicate via SWIFT, you will need to install a new component on your Alliance Gateway, the WSHA (Web Services Host Adapter).

Security

The SWIFT brand implies the highest level of security and reliability. These principles can easily be extended to CCI via SWIFTNet:

- Re-use your PKI certificates and HSMs in place today. There is no need for new equipment.
- Your environment will be secured thanks to SWIFT provided software and certificate to compute message signature before messages are sent.
- The usage of SSL and LAU also guarantee that messages are not tampered with inside your environment.

Subscribing to the service

All CCI related information is centralised on www.swift.com/cci

Visit the site to subscribe to the CCI services and order your WSHA.

For more information, please contact your SWIFT account manager or visit www.swift.com