



SIAnet FINANCIAL RING

The fast lane to financial markets





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One-stop solution exclusively designed for the financial community: it consolidates all connectivity accesses to international markets into one reliable, secure and fast connection, thus allowing for reductions in the costs attributable to complexity

SIAnet Financial Ring is a single technological network infrastructure with **low latency** and **high reliability**, that covers the entire value chain of the Securities Exchange industry, starting from **pre-trade** service (market data dissemination),

passing through **trading** (Production and DR trading platform access and co-location proximity and managed services) and ending with **post-trade** services (CSDs access).

WHY



Opening a real single window, accessing all the relevant Financial Infrastructures for Payments, Cards and Trading Venues/CSDs, with a real single network infrastructure



Entering a one-stop shop, getting a unique set of network services within a single contract



Gaining peace of mind, enjoying highly secure & privacy-compliant network services

SIAnet Financial Ring: our plus

Value Added Services

Today speed matters more than ever before. Algorithmic and alternative trading strategies especially depend very much on execution speed. Each SIA Data Center/PoP is fully equipped to meet market expectations, providing co-location and proximity services, hosting and facility management services for customer trading platforms.

Co-location

SIA offers the Co-location MTS and Eurex solution, an ultra-low latency connection in almost no time, which provides housing space for customer trading infrastructures.

MTS: SIA is the MTS Service Provider to access the common platform Tradeimpact, for Fixed Income trading on all markets in the MTS family. The market infrastructure is located at SIA Data Centers.

EUREX: SIA is Multi Member Provider to access the Eurex trading and market data platforms and the report engine. All the trading interfaces (ETI, Fix gateway, GUI), market data interfaces (MDI, EMDI), trading reports and files (CRE) are available through the SIAnet infrastructure.

Proximity Service

Designed by SIA for those customers aiming to reduce latency to zero or looking for the flexibility/scalability of a hosted facility. The customer trading application servers are hosted in SIA's rack space in the different Hubs, as close as possible to the Exchange's premises, providing the fastest possible connection to the Exchange's trading and information systems.

Managed Service

The Exchange members take advantage of the full service package and benefit from SIA's expertise. This turnkey solution includes: HW provision (trading server as per customer requirements), O.S. Facility management and connectivity solutions.

SIAnet Monitor Probe

A powerful network monitor, web-based and self-service, providing online information about network equipment. Designed for NET administrators who want to monitor directly from their own PC, the status and performance of TLC equipment installed at operational premises. SIAnet Monitor Probe provides real-time information including:

- Availability status
- Network schema and configuration
- Round trip delay (avg, min/max, No. values/fails)
- Volume, Jitter and Latency monitor
- Throughput (input/output ports)
- 7 Days Reporting

Post-trade access

SIAnet offer is extended to the post-trade through the Monte Titoli service, the main solution to access the Italian post-trading system for the services of Centralised Administration, Clearing and Settlement. SIA Access Bureau platform enables customers to reach different CSDs.

T2S: a new network infrastructure, managed in partnership with Colt, able to connect CSDs, Eurosystem Central Banks and the leading European bank groups to TARGET2-Securities. All T2S Direct Connected Actors can access the T2S platform through SIA/Colt's secure, high-speed connectivity and messaging services, which guarantee total security and privacy in the transmission of data, high reliability, performance and business continuity standards. Moreover, SIA Access Bureau includes a fully managed access point to the SIA/Colt T2S solution, minimising complexity and integration issues.

EUREX CCP: as Multi-Member-Fronted Systems, SIA will enable Clearing Members of ECAG (General/ Direct Clearing Members), Non-Clearing Members of ECAG and third parties, in particular settlement institutes, to connect to the back-office functions or clearing functions provided by Eurex Clearing AG. Connection to Eurex Clearing EDP takes places through the SIA central infrastructure at the London and the Frankfurt PoPs, for the clearing of different markets (Xetra, Eurex, Eurex Bonds and Eurex Repo).

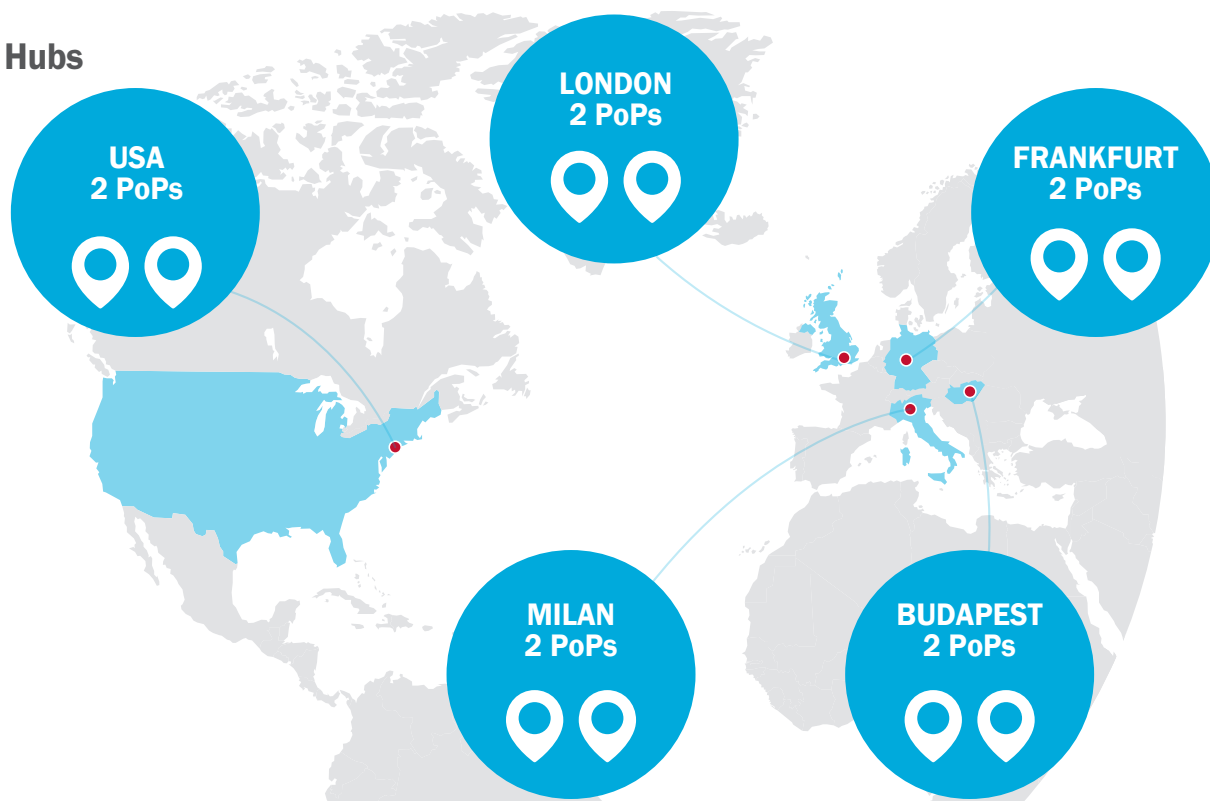
In the heart of the main financial marketplaces

Born out of SIA 40-year experience in integrating the best-in-class carriers and solutions, SIANet is designed to address the needs of financial players.

SIAnet Financial Ring is accessible through **nine Hubs** in different cities: Milan, London, New York, Budapest and Frankfurt, offering a direct dedicated connectivity solution to key Trading Venues, CSDs and Brokers.

This architectural solution is designed to neutralise network fault risk and **reset latency to zero**, matching the **high-level** customer business continuity requirements.

9 Hubs



The network configuration is **customised** according to each player specific needs and is **scalable** and modular to adapt to business evolutions in terms of **markets and trading partners reached, bandwidth, access points.**

The new technological network infrastructure also ensures:

- **Reliability and security:** highly reliable, protected fiber
- **High-level performances:** scalability and low network latency
- **Service management:** operation, maintenance, monitoring and **24/7** assistance

SIAnet Financial Ring guarantees exceptional **service levels** thanks to the adoption and management of market leading technology solutions:

- **Fiber-optic redundant backbones** connecting the PoPs in Europe and in USA
- **Point-to-point SDH connection** at extremely high speed (1-10 Gbit/s)
- **Different network and carrier routes** to increase the level of security and reliability
- **Customised connections** with trading partner
- **DWDM technology**
- **Direct fiber-optic connections** to market platforms



SIAnet Financial Ring at a glance

The value added network. SIAnet Financial Ring covers all the connectivity needs along the capital market value chain.

More than
600
SIAnet plants

More than **100** Tier 1 Banks connected
Best-in-class solution and leading provider
for Milan - Frankfurt latency route



Access to Trading venues

- Certified Network Service Provider
- Direct market access: native raw feed and trading channels for order submission
- Access to production and DR market platforms

Low-latency infrastructure

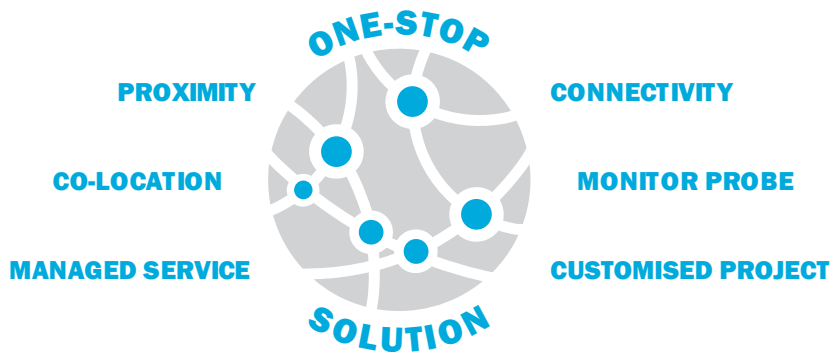
- 9 Pops around Europe and USA: Milan, London, Frankfurt, Budapest and New York
- 5 different network and carrier routes to increase the level of security and reliability
- Point-to-point SDH connections at extremely high speed
- More than 215 terabytes carried on the Financial Ring

TARGET2-Securities

- Eurosystem's Certified Network Service Provider to access T2S in partnership with Colt technologies

EUREX CCP

- As a multi member provider SIA offers the access to EUREX Clearing for Central Counterparty (CCP)



30

Trading Venues

9

PoPs

4

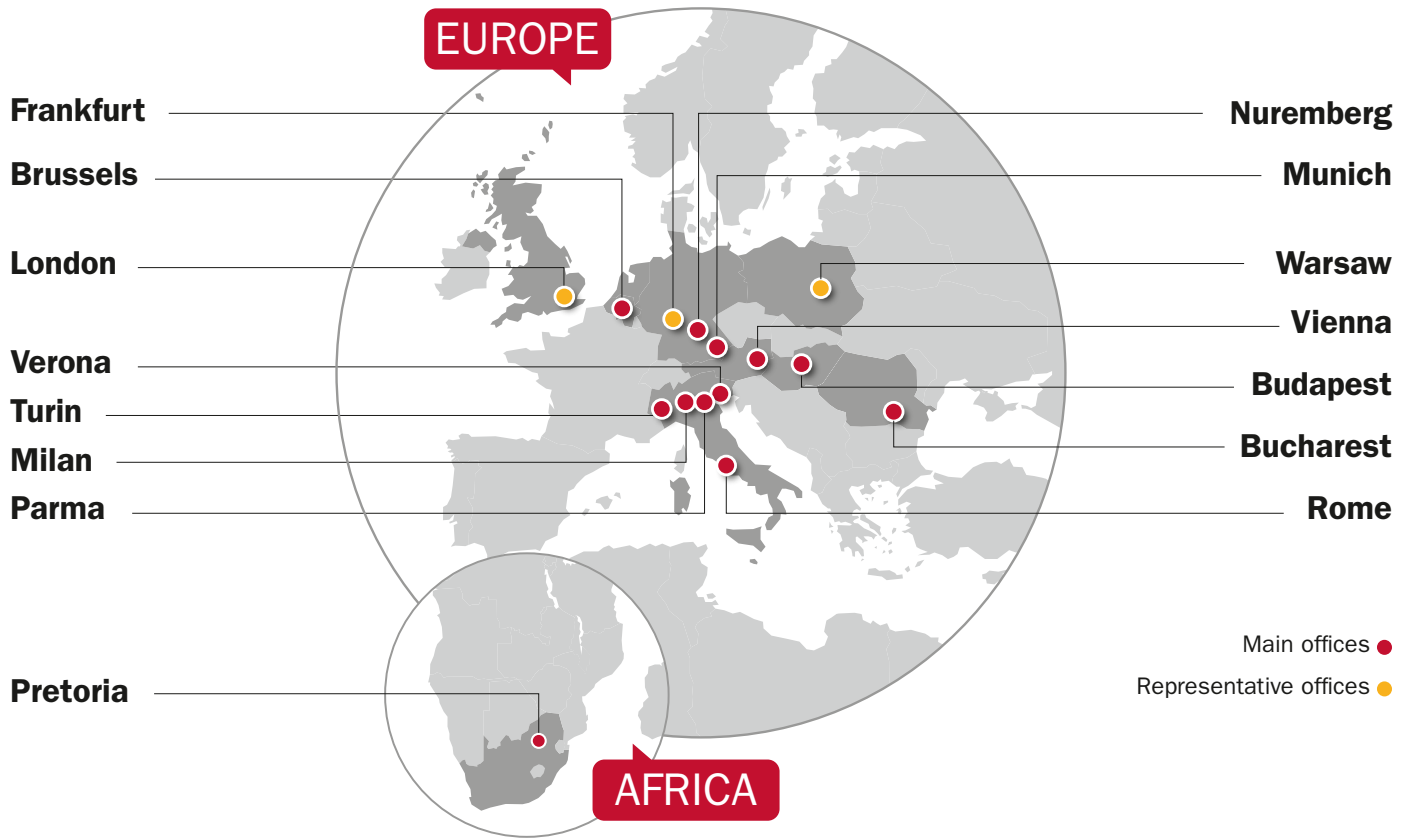
mS
Low Latency



About SIA

SIA is European leader in the design, creation and management of technology infrastructures and services for Financial Institutions, Central Banks, Corporates and the Public Sector, in the areas of payments, cards, network services and capital markets. The Group provides its services in 48 countries and is made up of eight companies: the

parent **SIA**, the Italian companies **Emmecom** (innovative network applications), **P4cards** (card processing), **SIAPay** (advanced collection and payment services), **Ubiq** (innovative technology solutions for marketing), **Perago** in South Africa, **PforCards** in Austria and **SIA Central Europe** in Hungary.



SIA Group key facts | in 2017



13.1 billion
clearing transactions



6.1 billion
card operations



3.3 billion
payment operations



56.2 billion
financial transactions



784 terabytes
data carried on the network



2,000+
employees



€ 567.2 million
revenues



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