

High velocity clearing for a competitive world

Designed to support competitive high velocity clearing, settlement and risk management, GENIUM[®] Clearing provides a stable and efficient environment for post trade operations. A proven and flexible system, GENIUM Clearing handles a broad range of assets on a single platform and provides the robust functionality needed to manage a wide variety of business needs.

The benefits are numerous. GENIUM Clearing offers extraordinary performance, extensive functionality and flexible account structures. This built in flexibility enables marketplaces to set up multiple business models to meet different customer requirements. GENIUM Clearing is a powerful business tool that can help marketplaces better serve their members.

The technology is proven. GENIUM Clearing incorporates market leading technology from both the former NASDAQ and OMX, combining premium performance with robust functionality to provide marketplaces with the tools needed to gain business advantage in today's highly competitive clearing environment.

GENIUM Clearing is ideally suited for high volume marketplaces that need a central counterparty solution (CCP) to clear and settle trades across asset classes, markets and currencies and can benefit from real-time position handling to manage risk exposure.

Key benefits

- **Efficient real-time processing:**

Enables advanced risk management for participants and the marketplace, an absolute necessity in today's competitive business environment where risk exposure can spread quickly.



- **Platform for business services:**

Provides flexible account structures that enable special services, such as the ability to provide rebates to market makers, for different market segments, including hedge funds, end clients and insurance companies, among others. This supports the needs of both marketplaces and members and the creation of different business models to attract different customer segments.

- **Supports multiple markets:**

Offers the ability to support different trading venues, asset classes and currencies, enabling multiple trade sources on a single platform and the ability to clear for other entities including foreign markets.

- **Short time to market:**

The system has all the tools in place to launch new products, list new instruments and add new members. This makes entering and exiting new markets a relatively easy and low cost exercise.

- **Low total cost of ownership/commodity platform:**

Built on a low cost LINUX platform and run on a low maintenance commodity hardware base, GENIUM Clearing is highly cost efficient to test, deploy, maintain and upgrade.

- **Integration with Trading:**

Provides seamless integration to GENIUM Trading and can easily be integrated with any other system. GENIUM Trading and Clearing share the same database and operational tools, making an integrated system more efficient and easier and less costly to maintain than separate platforms.

- **Easy member connectivity:**

Using an open API, marketplaces can make certain business services, such as accounting, administrative services, and exercising options, available to members via the API, enabling members to perform these services themselves.

- **Easy migration path:**

Protects most business functionality, API/integration and technical infrastructure investments of current SECUR customers – providing a convenient low-risk migration path.

Functional highlights

- **Superior instrument structure:**

Finely honed over more than 20 years, GENIUM Clearing's instrument structure has the flexibility to easily and quickly configure any security that can be electronically traded. New instruments can be added with ease and brought to market intraday.

- **Multi-market, multi-currency on a single platform:**

GENIUM Clearing can support multiple exchanges, clearinghouses and markets in different time zones and with different calendars, instruments and currencies on the same platform. This offers a growth path to clear additional marketplaces without major new technology investments.

- **Comprehensive risk and collateral management:**

Built on best practices gleaned from more than 20 years providing systems and serving customers, GENIUM Clearing provides a wide range of functional capabilities, including real time and intra-day margining, risk aggregation and stress testing. The groundbreaking stress testing for the capital at risk (RCaR) module inspires confidence in capital calculations and has been proven, audited and certified in Nordic markets. The flexible risk aggregation module can spread across various member levels and type of netting, enabling customers to select different methods and ways to measure risk.

- **Full life cycle modeling for financial products:**

GENIUM Clearing provides a comprehensive model for how instruments behave throughout their life span, replacing the need to individually code new products and making it possible to quickly launch new instruments complete with all the information needed to clear, settle and risk manage that instrument. The model incorporates a living library of routines that grow with our customers and covers the full experience of NASDAQ OMX. Market related events, such as cascading products or spin-offs, are also supported.

- **Flexible market coverage:**

Market coverage includes all standard security types as well as extensive support for OTC traded instruments, incorporating standard tailor made derivatives and sophisticated structured products. GENIUM Clearing supports complex OTC market contract terms, translating them into electronic format to enable the automation of business processes and reduce risk. The system is building an extensive array of business services for OTC instruments, ranging from matching/confirmation through settlement, novation and clearing.

- **Real time positioning and allocation:**

A pioneer in eliminating batch processing, GENIUM Clearing excels at providing real time services to clearinghouses and enabling clearinghouses to provide real time services to their members via the API. Clearinghouses benefit from the ability to offload tedious account management to members, while members gain better control over their positions and the ability to directly service their customers without waiting for the clearinghouse to act as middleman. Clearinghouses can better attract members, while members can be smarter and more service oriented



Technical platform

- HW/processor: Intel x86, 64 bit architecture
- O/S: Linux
- Database: Oracle 11g
- Network: Gigabit capacity or better

NASDAQ OMX is a dedicated partner

For more than 30 years, NASDAQ OMX has been a leader in creating electronic technology solutions for the exchange industry. We have a long history of partnering with marketplaces worldwide to provide the strategic guidance, technology tools and ongoing support to help them meet their goals. With GENIUM Clearing, in addition to gaining an exceptional technology platform, marketplaces benefit from the unwavering commitment and dedicated support of the world's largest exchange company. For more information, visit www.nasdaqomx.com/whatwedo/markettechnology.