

The Aquis Matching Engine (AME) is a global, comprehensive solution for businesses seeking to operate either a public exchange or an internal matching system. Aquis Technologies' entire suite of technology products has been developed in-house and at its core is the Company's proprietary, state-of-the-art, scalable, and fault-tolerant matching engine.

Fast. Robust. Cost-effective.

Aquis Technologies has developed a leading matching engine and associated products to help businesses that need cost-efficient technology and a highly personal and responsive service.

The matching engine's capabilities and performance are unequalled in the industry, with average round trip latency measuring under 11µs in a wide range of market conditions.

The system provides the capabilities for trading a variety of asset classes and the matching engine is complemented by market surveillance tools, associated market operations functions and support, and data services. Aquis Technologies has been designed with flexibility and simplicity in mind. The highly adaptive architecture empowers the easy delivery of client-specific development and support cycles.

Key features and benefits

1 Highly performant – consistently

Aquis Technologies offers highly performant products. Its matching engine has the industry's lowest latency. It can accommodate exceptionally high throughput and has built-in fault tolerance making it very robust, reliable with unparalleled availability.

2 Fast deployment

Time to market is very quick for users as the platform is already developed, tested and is in operation. As a result, speedy configuration and implementation can be achieved. Furthermore, the system is simple to operate post installation.

3 Regulatory compliance

Aquis Technologies supplies Aquis Exchange, the operator of a UK FCA regulated MTF. Therefore its products are fully compliant with the latest UK and European regulatory requirements. Also, they are designed to be updated in line with the constantly changing regulatory environment globally.

4 Flexible

The core system can be used for a broad range of asset classes, for both open and internal platforms and for lit and dark books.

5 Customisable

The system is also fully customisable and modular so as to cater for the differing needs of users.

6 Scalable

It is highly scalable so it can grow with the needs of its users and allows for high numbers of simultaneous trading connections and high transaction capacity.

7 Service oriented

In addition to developing powerful tools, Aquis Technologies is a customer-focused, agile and highly responsive business. Furthermore, the matching engine can be hosted and managed by Aquis post installation, thus eliminating users' maintenance and staffing issues.

8 Cost efficient

Aquis Technologies is a low cost solution for operators of exchanges or internal matching engines – saving the cost of in-house development and staffing.

9 FIX

Full support for industry standard FIX protocol.

10 Proprietary protocols

Proprietary protocols in a binary format allowing faster access to market and reduced bandwidth.

11 Data

Industry standard multicast market data – ensuring fast and efficient distribution using a custom, optimised message structure.

12 Best practice software

All the software is developed and implemented in C++ and JavaScript using engineering best practice.

13 Architecture

The distributed architecture avoids trading and data bottlenecks.

14 Cloud ready

Aquis is at the forefront of delivering cloud-based exchange infrastructure. Aquis successfully delivered a regulatory grade exchange in the cloud as part of a ground-breaking Proof of Concept with Singapore Exchange and Amazon Web Services.

Outstanding performance

The Aquis Technologies binary protocol delivers industry-leading performance:

- The system has been tested to an average message rate of 70,000 messages per second, based on 2,000,000 orders sent in under 30 seconds.
- This has resulted in an average of 11µs per message in a single session.
- High predictability and consistency of response is assured.
- Degradation and jitter is kept to a minimum.
- Resiliences and fault tolerances deliver high levels of availability.

Multiple order types available

The Aquis Technologies matching engine handles a wide range of order types:

Limit	Iceberg	Post-only	Pegged	Fill or Kill
Post-only Cancel Replace (POCR)	Market at Close (MaC)	Auction on Demand (AoD)	LIS Trade Capture Reports	Benchmark Cross Trade Capture Reports

Flexibility

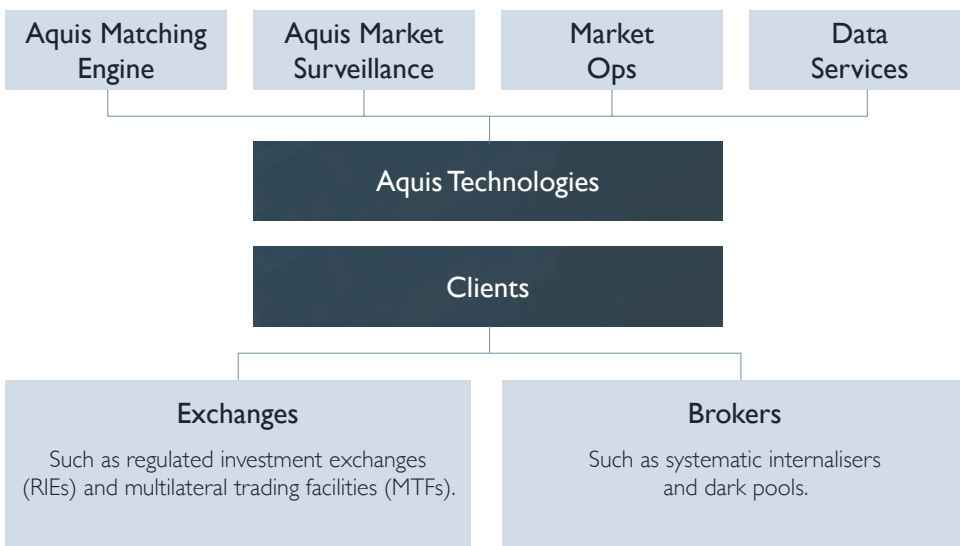
The Aquis Technologies matching engine offers unparalleled flexibility:

- Any asset class
- Any market structure
- Lit or dark book
- Numerous order types
- Various protocols accepted
- Matching algorithms
- Various trading methods available
- Can be order/quote or hybrid

Aquis Technologies operates three fully segregated environments: a development environment, a customer testing (UAT) environment, and a production environment. Access to each of these environments is limited in accordance with IT security best practice.

Aquis Technologies supports full connectivity with Europe's leading interoperable equity CCPs.

A complete turnkey solution for a variety of clients



Designed for visionaries, delivered by practitioners

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Social media



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Aquis Technologies

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Aquis Technologies is the software and technology division of Aquis Exchange PLC. It creates and licenses cutting-edge, cost effective matching engine and trade surveillance technology for banks, brokers, investment firms and exchanges. Aquis Exchange PLC is an exchange services group, which operates pan-European cash equities trading businesses (Aquis Exchange/AQX), growth and regulated primary markets (Aquis Stock Exchange/AQSE) and develops/licenses exchange software to third parties (Aquis Technologies). Aquis Exchange PLC (AQX.L) is authorised and regulated by the Financial Conduct Authority and is listed on the Alternative Investment Market of the LSE (AIM) market.