



GLOX FIX Hub for German and Austrian Banks

Information Brochure

Changes in the German Exchange Landscape

Various exchanges in Germany are currently in the process of renewing their infrastructure and implementing new exchange trading systems. Deutsche Börse replaces the **MISS architecture** for **XETRA** in 2016, just as Eurex has already done. **Boerse Stuttgart** has introduced 2015 the new platform **Xitaro**, which has replaced their use of **XONTRO**. This trend can also be seen for other trading places in Germany and the rest of Europe.

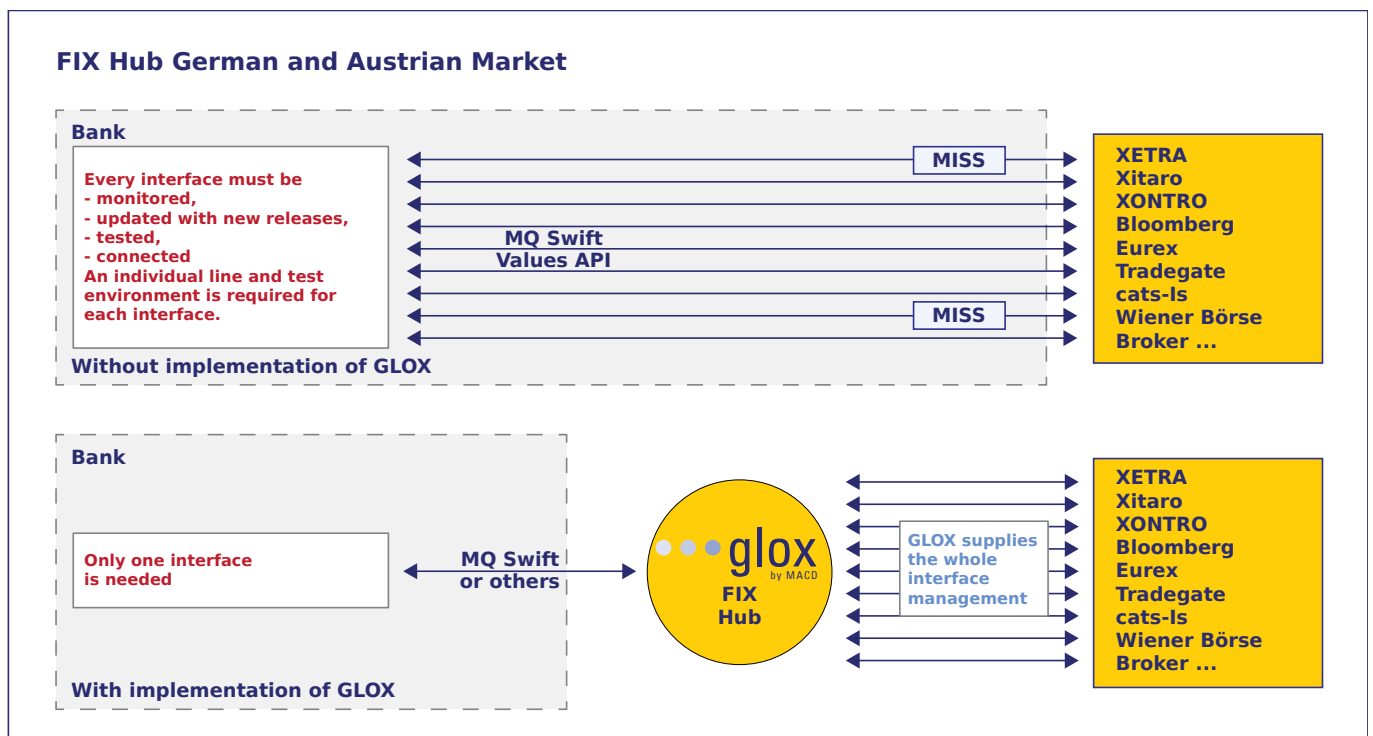
Changes of this type lead the banks to review their exchange connectivity and to replace them with new connections. In addition, many new trading places are opening up for diverse asset classes (MTFs, OTFs etc.). This underlines the importance of effective connectivity with a high degree of automation. As a result of these changes, now is an ideal point in time to investigate potential improvements in your infrastructure and architecture, in order to improve **efficiency, reduce costs, and secure flexibility in the future.**

GLOX FIX Hub reduces and simplifies your market connectivity and sinks your implementation effort. **Migrations and releases** for each market can be carried out with **minimum fuss. Test activity is significantly decreased** and the maintenance costs are reduced. A connection to the **GLOX FIX Hub** provides access to a wide range of exchanges, brokers and alternative trading places.

Our experience operating a FIX hub since 2001 allows us to optimally support banks, trading firms and software companies and to significantly reduce the complexity.

We Connect for You

We combine efficiency, speed and the reduction of errors due to manual entries: the keyword is **STP - Straight Through Processing**. MACD has many years of experience in simplifying processes in exchange trading, in the monitoring of order and trade flow, and in connecting your trading destinations with your banking system such that a smoothly integrated communication entails. Our software solutions are flexible and can also take into account complex **regulatory requirements such as those of MiFID/MiFID II as well as BaFin's requirements.** The requirements vary from customer to customer and it is very important for MACD to tailor the software so that you have the largest possible benefit. GLOX supports **various asset classes** such as **bonds, shares, funds and derivatives.**



We provide connections to various exchanges and alternative trading places in Germany and are always careful to consider the individual rules and features of each destination, so that the customer can concentrate on trading. MACD is always interested in connecting to new trading places, brokers and destinations. The following destinations are already connected to the GLOX network:

- Eurex
- Bloomberg (TSOX, EMSX)
- Multiple brokers (UBS, Credit Suisse, etc.)
- Swisscanto (broker for funds)
- SIX Swiss Exchange
- SIX Structured Product Exchange
- BX Swiss

Vendors, Partners and Interface Management

GLOX can be integrated by means of a **highly developed FIX interface**. We are happy to develop alternative connectivity as required. We are experienced in connectivity via **FIX, MQ Series**, as well as **SWIFT** and other transfer protocols.

Our software can also be implemented by software **vendors, core banking providers** or **OMSs**. An integrated connection to the surrounding systems is our core competence, in order to ensure a high level of STP.

We have already connected the following bank systems:

- Avaloq
- TCS Bancs
- Apsys (SunGard)
- Front Arena (SunGard)
- OTMS (IBM)
- Olympic (eri Bancaire)

Support for Unique Workflows

Every bank is different and has different workflows. **GLOX is flexible** and can be tailored to diverse requirements. Orders can be stopped in GLOX or automatically forwarded. Limits for automatic order forwarding can be defined. Notifications for different events can be configured (order rejection, trigger of conditional orders etc.) in order to warn the trader and **avoid costly mistakes**. Also requirements of the connected exchanges and trading places as well as regulatory bodies are taken into account in GLOX:

- Implementation regulatory requirements (BaFin, MiFID I & II, MiFIR, EMIR, Post-trading, Reporting, Best Execution)
- Drop copy
- File generation, data warehouse
- Cross-border, multinational solutions with daughter companies
- Pooling & Splitting

We have a well founded knowledge in securities trading and are happy to support you with consulting. MACD has actively supported many projects for different customers in financial markets trading. MACD is therefore not just a manufacturer of software, but can also help you to make your **workflows** more **efficient**. This efficiency increase can happen along the **whole securities trading process** (core banking systems, order management systems, trading systems and connectivity to markets).

Service and Support

We have a motivated and highly skilled support and development team, that can help to quickly solve your problems. Our teams in **Aachen** (development and support) and **Zürich** have been fulfilling high standards of **professional support** for many years. Almost all of the support team are also active as developers for our GLOX trading system. This ensures that you talk to **GLOX experts**. Of course, we also visit you regularly, in order to collect your feedback and ensure your satisfaction.

Shaping the Future!

The rapid development of financial markets and regulatory conditions require standards which are often hard to fulfil. We provide **innovative solutions** which reduce your manual effort significantly. Our extensive network allows us to identify trends early and respond to changes quickly.



As a privately held family company, we are **independent** and can offer the ideal long term solution. We work with a fixed-price concept, so you always have a clear overview of the costs.

Compliance with our own high quality standards is very important to us - the stability and availability of our systems and a reliable support are a fundamental requirement for us. Our goal is to work with you in a **cooperative partnership** with regular, open communication, to respond best to your needs.

Our offering is comprehensive: We plan your individual project. We develop the software. We manage the hosting. We advise and train you. We care for you personally.

Experience / Reference

As one of the first application software providers in the finance industry, we are not only well experienced and have built up a profound understanding of the market, but we are also very proud that over 20 financial institutions rely on GLOX. A list of our references can be found here www.macd.com.

About MACD

MACD has been offering innovative financial IT-solutions since 1996. We have developed from a family-owned company into an international company with locations in England, Germany and Switzerland. Approximately 30 highly qualified employees work on the development and support of software and solutions for the financial sector. Our offering covers software development, hosting, consulting, support and also tailor made solutions. We are a member of the FIX Trading Community. Further information can be found here: www.macd.com.



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Would you like to get more information about MACD and GLOX FIX Hub?

Please contact us at any time!

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