Börse Stuttgart

BÖRSE STUTTGART | PROBLEM SOLVED

Börse Stuttgart relies on NetApp infrastructure to advance the digital economy. One example is the launch of BISON, the first cryptocurrency trading application powered by a traditional stock exchange.

From Mainstream to Blockchain, German Stock Exchange Innovates in the Private Cloud

German stock exchange Börse Stuttgart manages thousands of financial transactions per hour. Retail investors rely on this exchange for super-low-latency trading in more than 1.8 million financial products. They can also trade cryptocurrencies using the BISON app, which is powered by Börse Stuttgart Group.

800k
price updates per second

50k
new financial instruments opened daily

✉ NETAPP.COM/CONTACT

n NetApp®

> "Innovation is our tradition. In this age of digitization, we rely on the most modern technologies—and the power of data—to offer groundbreaking trading options to our investors."
>
> Peter Litschel
> CIO, Börse Stuttgart

Börse Stuttgart is building on its 150-year reputation of stock-trading excellence by digitally transforming the stock exchange's financial markets and products. "Innovation is our tradition," says CIO Peter Litschel. "In this age of digitization, we rely on the most modern technologies—and the power of data—to offer groundbreaking trading options to our investors."

Recently, Börse Stuttgart's management team implemented NetApp® technology to modernize the exchange's infrastructure and enhance its ability to scale. That's critical given increasing trade volumes and inherent marketplace volatility, which can trigger unforeseen spikes in capacity requirements. With NetApp solutions, the stock exchange is unlocking the power of data to accelerate investment innovation, minimize trading complexity, and keep pace with digital market opportunities.

ESSENTIAL INFRASTRUCTURE

The FlexPod® converged infrastructure platform forms the centerpiece of Börse Stuttgart's private cloud. Built on technology from NetApp and Cisco, FlexPod keeps the exchange's dynamic environment running smoothly by supporting all areas of the exchange, from virtual desktops on the trading floor to virtualized applications that generate billions of calculations per day.

Built with NetApp AFF technology, the flexibility of FlexPod supports current and future workloads and simplifies infrastructure management. Separate NetApp AFF systems provide a foundation for databases that require high performance and low latency. The exchange is also able to save money by using lower-cost NetApp FAS for workloads that don't demand high performance, such as file services.

Because of its need for business continuity, Börse Stuttgart operates two main on-premises data centers in Stuttgart and also uses colocation facilities in Frankfurt, providing synchronous and geo-redundant data. NetApp MetroCluster™ software delivers continuously high data availability for all critical workloads, and the NetApp Managed Services team handles operations 24/7.

■ NetApp®

ENABLING GROUNDBREAKING TRADING INNOVATION

"NetApp and its intelligent data management technology are foundational to what we call our business ecosystems," Litschel says.

Always at the forefront of stock exchange innovation, Börse Stuttgart is now bringing European investment markets the BISON app, which makes it easy for private investors to trade cryptocurrencies. Investors simply prove their identity, transfer money into their BISON account, and can begin trading in various cryptocurrencies, including Bitcoin and Ethereum. The trading partner at BISON is financial services provider Euwax AG, a subsidiary of Börse Stuttgart. BISON relies on an optimized DevOps environment to support the fast pace and short reaction times of cryptocurrency trading.

Samir Gärtner, systems technology director for Börse Stuttgart, puts the NetApp value in this scheme rather plainly. "With NetApp, we have a sustainable IT infrastructure that enables us to handle the massive data throughput on our stock exchange efficiently, stably, and extremely quickly.

We don't have to constantly look back and check what our systems can withstand, but instead focus on innovation for the future."

SOLUTION COMPONENTS

NETAPP PRODUCTS

NetApp AFF
NetApp FAS
NetApp Managed Services
NetApp based backup
FlexPod
Metrocluster

ADDITIONAL COMPONENTS

Cisco UCS Servers
Cisco Nexus switches

LEARN MORE

netapp.com/us/products/storage-systems/all-flash-array/aff-a-series.aspx

✉ **NETAPP.COM/CONTACT**   +1 877 263 8277