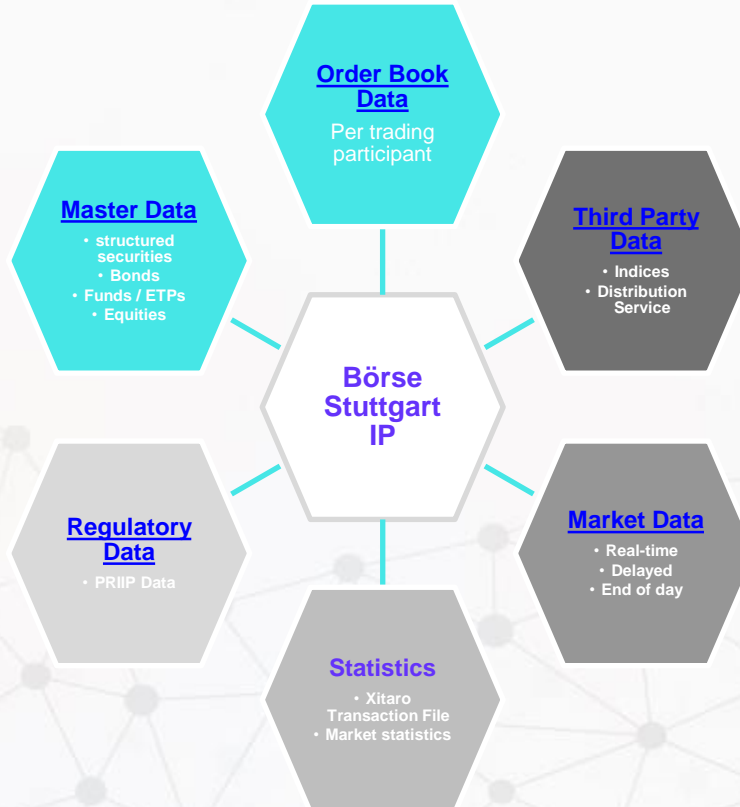


Information Products and Services

Product Portfolio

Information Products: Product Portfolio

Existing Products / Services

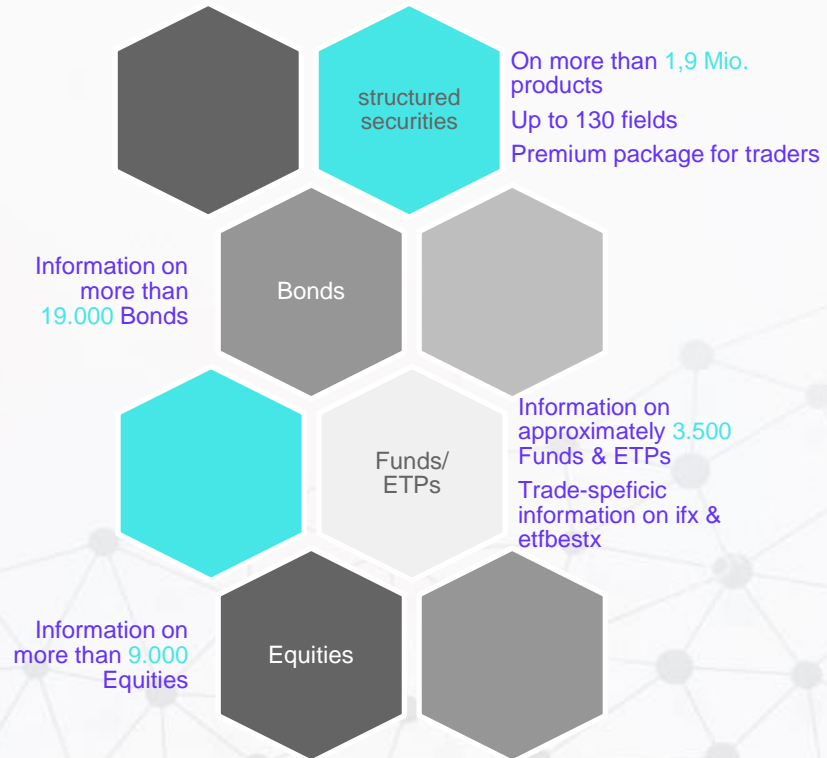


Information Products

Master Data: [Overview](#)

Service offer

In addition to the wide range of data offered by Börse Stuttgart (price, quotations, statistics, historical data, third-party data distribution...) Börse Stuttgart as a premium full-service provider known on the market, offers securities master data for different asset classes.

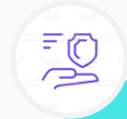


Information Products

Master Data: **Structured securities**

Securities Master Data Offer

Börse Stuttgart is the private investor exchange and offers all relevant and tradable products for this target group with regard to structured securities. Information is provided on all structured securities tradable on the stock exchange in Germany (including new issues). If available, information on OTC tradeable products will also be provided.



Provision

- Delivery of data several times a day by splitting it into several data streams
- Direct connection (direct line connection or SFTP server) via Stuttgart Stock Exchange or indirectly via (Re)Vendors



Actuality

- Daily full delivery of the complete securities portfolio
- Every 30min intraday updates on structured securities (25x/Day)
- Notifications on barrier touches of knock-out instruments



Quantity

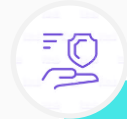
- **Basis package:**
Contains all essential information on the features of structured securities. In addition, data on the respective underlyings and trading venues are also provided.
- **Premium package:**
Basis package + significant attributes for trading such as barriers (primary for traders)
- **Platinum package:**
Premium package + data product customized for the customer

Information Products

Master Data: [Equities/Funds/ETPs/Bonds](#)

Securities Master Data Offer

Our master data files for equities, funds/ETPs and bonds contains information on all tradable products of the respective asset class listed on Börse Stuttgart. This includes more than 9.000 domestic and foreign equities, 3.500 funds/ETPs and 19.000 bonds.



Provision

- Delivery of data several times a day by splitting it into several data streams
- Direct connection (direct line connection or SFTP server) via Stuttgart Stock Exchange or indirectly via (Re)Vendors



Actuality

Full delivery of securities master data (intraday):

- 1x for Equities
- 1x for Funds
- 3x for ETPs
- 4x for Bonds



Quantity

- **Equities:** Fundamental securities information on all tradeable shares at BS
- **Funds/ETPs:** Contains all relevant features for trading in actively managed funds and ETPs
- **Bonds:** All relevant features and information on coupon changes

Information Products

Market Data

Market Data offer

Market data contains information on all equities, bonds, funds and structured securities listed and traded on Börse Stuttgart - in real time, delayed or end-of-day. Depending on the package, this includes all noted prices, quotations, volumes and much more information.

In addition data on the Euwax Sentiment as well as Order Book Data can be obtained.



Complete package

- All prices and quotes for instruments listed and traded on the BS (sum of post-trade and pre-trade data)
- Ratio of pre-trade to post-trade data: 233:1



Post trade data package

- Contains all prices for all instruments listed and traded on Stuttgart Stock Exchange
- ∅ Quantity prices/day: 14 Mio.



Pre trade data package

- Contains all quotes for all instruments listed and traded on Börse Stuttgart
- ∅ Quantity quotes/day: 3.300 Mio.

Information Products





Order Book Data

Offer and content

Details of:

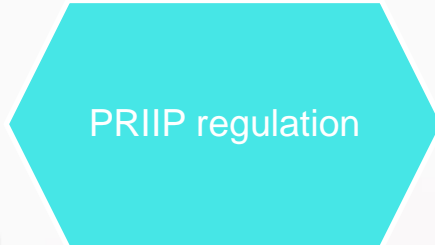
- order entry, modification, deletion and execution on a daily basis
- order type
- price supplements and price notes

In addition information on the underlying prices of the order is provided. It is visible whether it is the opening or closing price.

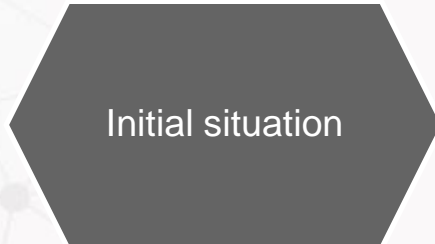
Provision	Service	Advantages	Requirement
			
<p>Daily full delivery via file-oriented infrastructure (FTP(S) server)</p> <p>Contains all entries of the previous trading day</p>	<p>Basis for the provision is a service level agreement</p>	<p>In addition to the order details, the trading participant receives information about who his business partner was</p>	<p>Trading participant of Börse Stuttgart (order information attributable via CBV number)</p> <p>For Nasdaq SMARTS without any modifications. For all other systems the specifications can be configured according to the requirements</p>

Information Products

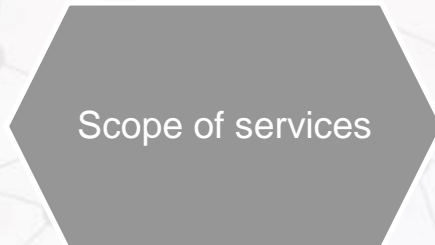
Regulatory Data: [PRIIP Data Service](#)



- Introduction of Key Information Documents (KIDs) for certain investment products
- Unified rules on the form and content serve investor protection, comparability and increases transparency



- BS with several years of experience and expertise in the field of information distribution
- Europe-wide distribution on all relevant financial markets, websites, systems and frontends in the highest quality



- Selected and filterable data
- Distribution of KID Web Links
- Parameter controlled search for PRIIPs
- Programming of finders and search fields to ensure fast finding of the desired product + KID

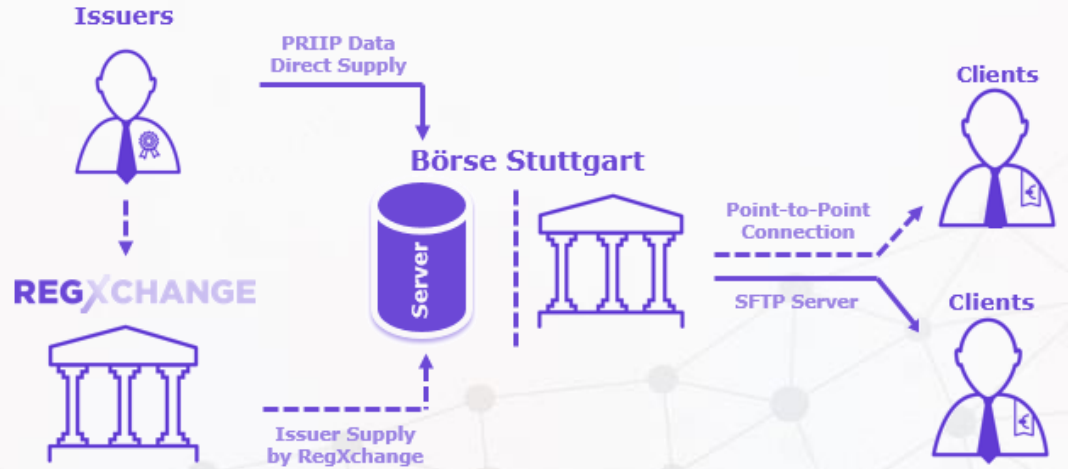
Information Products

Regulatory Data: [PRIIP Data Service](#)

Service offer

Contractual agreements between Börse Stuttgart and the connected PRIIP issuers ensure the delivery of the data. The PRIIP data of the issuers are taken over 1:1 and integrated into the data feed of Börse Stuttgart.

Automatic processing of the original data ensures low susceptibility to errors and excludes data loss with high degree of probability. The intraday delivery of the data by the issuer and its intraday processing and redistribution ensure that the data is up-to-date in the market. The links to the KIDs and the corresponding fields are accessible for each distributor.



Information Products

Xitaro Transaction File



Offer

- Information on transaction on ISIN and daily basis
- File can be obtained directly from the BS or from a service provider
- If there is a license agreement between the BS and a service provider, the service provider is entitled to prepare and provide the data



Use cases

- Calculation of the market share at product level
- Competitive analyses by issuers
- Valuation of new issues



Versions

- Basis package
- Premium package
- Platinum package





Information Products

Xitaro Transaction File

	Basis package	Premium package	Platinum package
Content	Börse Stuttgart: all asset classes	Börse Stuttgart: structured securities according to official DDV classification & structured bonds	Börse Stuttgart: structured securities according to official DDV classification & structured bonds
Data universe	<ol style="list-style-type: none"> 1. Transactions carried out on the stock exchange via Xitaro 2. OTC transactions via Xitaro 3. OTC transactions via Xontro (Direct Market Transactions Stuttgart) 	<ol style="list-style-type: none"> 1. Transactions carried out on the stock exchange via Xitaro 2. OTC transactions via Xitaro 3. OTC transactions via Xontro (Direct Market Transactions Stuttgart) 	<ol style="list-style-type: none"> 1. Transactions carried out on the stock exchange via Xitaro 2. OTC transactions via Xitaro 3. OTC transactions via Xontro (Direct Market Transactions Stuttgart) 4. Differentiation of buy/sell of the transaction from the customer's point of view
Counting method	<p>„Multiple counting“</p> <p>Customer orders and closings of the QLP against market makers are taken into account. OTC buy and sell sides are recorded (Xitaro and Xontro). Cancellations are taken into account accordingly</p>	<p>„Single counting“</p> <p>Only executed customer orders are taken into account. Single counting method for OTC transactions by only considering the buy side (Xitaro and Xontro). Cancellations are taken into account accordingly</p>	<p>„Single counting“</p> <p>Only executed customer orders are taken into account. Single counting method for OTC transactions by only considering the buy side (Xitaro and Xontro). Cancellations are taken into account accordingly</p>
Provision	Daily around 3 am german local time	Daily around 3 am german local time	Daily around 3 am german local time

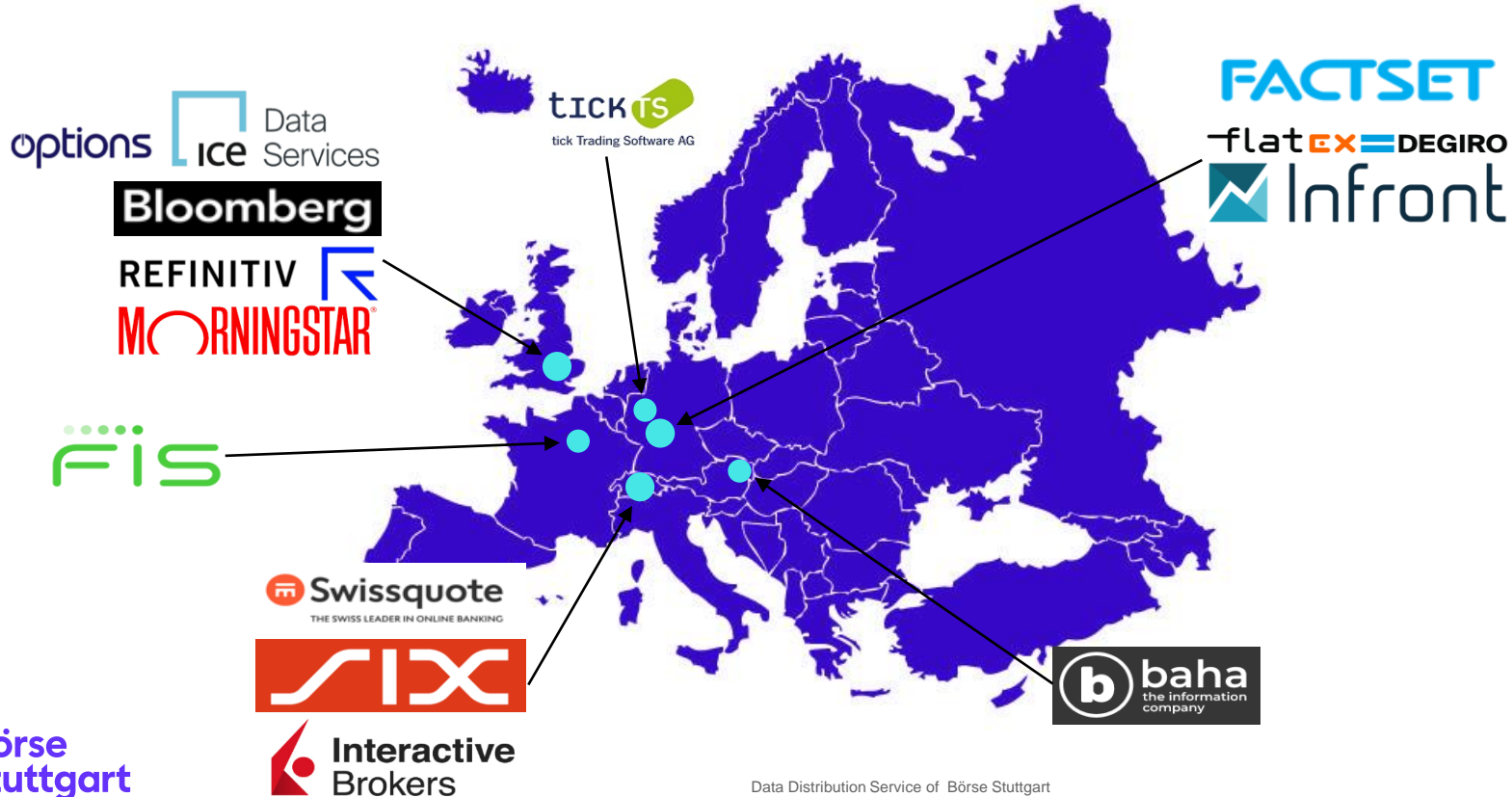
Data Distribution Service of Börse Stuttgart

Use of our infrastructure to distribute your data

Connection	Network	Distribution	Service
			
<p>Direct connection to our data distribution system according to your requirements</p> <p>Direct connection via dedicated line to own data distribution system (SID) of Börse Stuttgart</p> <p>Connection possible via Carrier BT; COLT und ICE</p> <p>Line size depending on the amount of data to be distributed</p> <p>Variable pricing model depending on data distribution volume</p>	<p>Our comprehensive distribution network distributes your data to all relevant financial markets, websites, systems and frontends – worldwide</p> <p>18 customers (Vendors) are directly connected to the company's own data distribution system SID</p> <p>Approximately 300 customers (Revendors) are in a direct contractual relationship with Börse Stuttgart regarding to market data</p>	<p>We satisfy the highest requirements for data distribution and enable data distribution around the clock</p> <p>Highly available and performant system SID offers high reliability in data distribution</p> <p>Our systems are double configured incl. pre-live environment</p> <p>The service is provided 7 days a week and 24 hours a day</p>	<p>We take over the administrative activities at your request</p> <p>Assumption of the marketing of your data</p> <p>Assumption of administrative tasks such as contractual licensing with customers, ordering process, invoicing and reporting</p>

Data Distribution Service of Börse Stuttgart

Our Vendors: directly connected customers / providers in EUROPE



Data Distribution Service of Börse Stuttgart

Our ReVendors: customers supplied with our data via providers

Approximately 300 customers have a direct contractual relationship with Börse Stuttgart in the area of market data and obtain our data via providers / Vendors. The following customers are only an excerpt.



Banks



Websites



Broker



Provider



Börse Stuttgart Digital Exchange

BSDEX as a strong partner for crypto trading

- The Börse Stuttgart Digital Exchange is the first regulated multilateral trading venue for digital assets in Germany that fulfills the regulatory requirements according to § 2 para. 12 KWG.
- From legitimation over trading to custody, all partners of BSDEX come from Germany. The safekeeping of the digital assets is done by blocknox GmbH, also a company of the Börse Stuttgart Group. The euro accounts are held at Solarisbank AG.

- ✓ First trading venue for cryptocurrencies regulated in Germany
- ✓ Full-Service-Offer including Trading, Custody, Compliance
- ✓ Connection via FIX or REST APIs possible
- ✓ 24/7 support through our Operations & Tech Team
- ✓ Personalized connection
- ✓ Full integration into existing back- and frontend systems

A joint venture of:

Börse
Stuttgart

axel springer

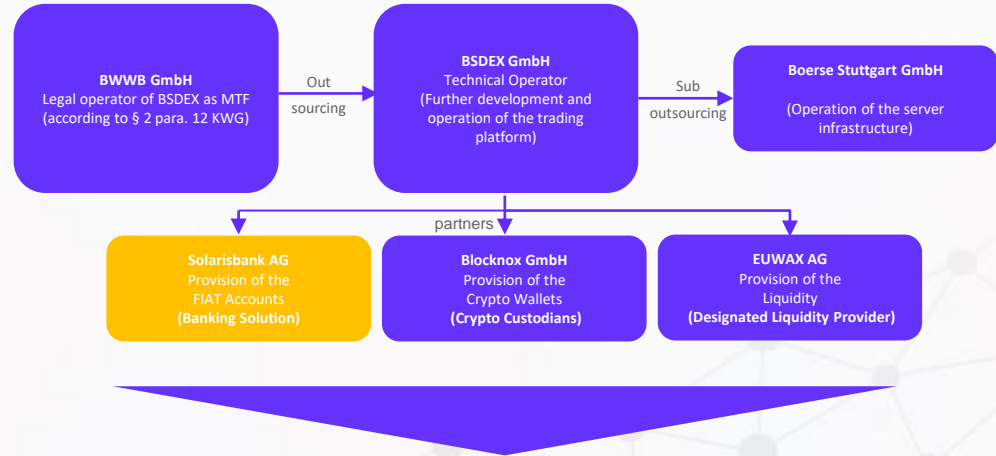
SBI Holdings

finanzen.net

Börse Stuttgart Digital Exchange

Overview of the organizational set-up of the BSDEX

- The BSDEX is legally operated by Baden-Württembergische Wertpapierbörse GmbH (BWVB GmbH), which also acts as the sponsoring company of the public stock exchange.
- The technical operator of BSDEX is Börse Stuttgart Digital Exchange GmbH.
- BSDEX benefits from the far-reaching trading expertise of Börse Stuttgart Group - especially in terms of transparency, internal market surveillance and reliability.

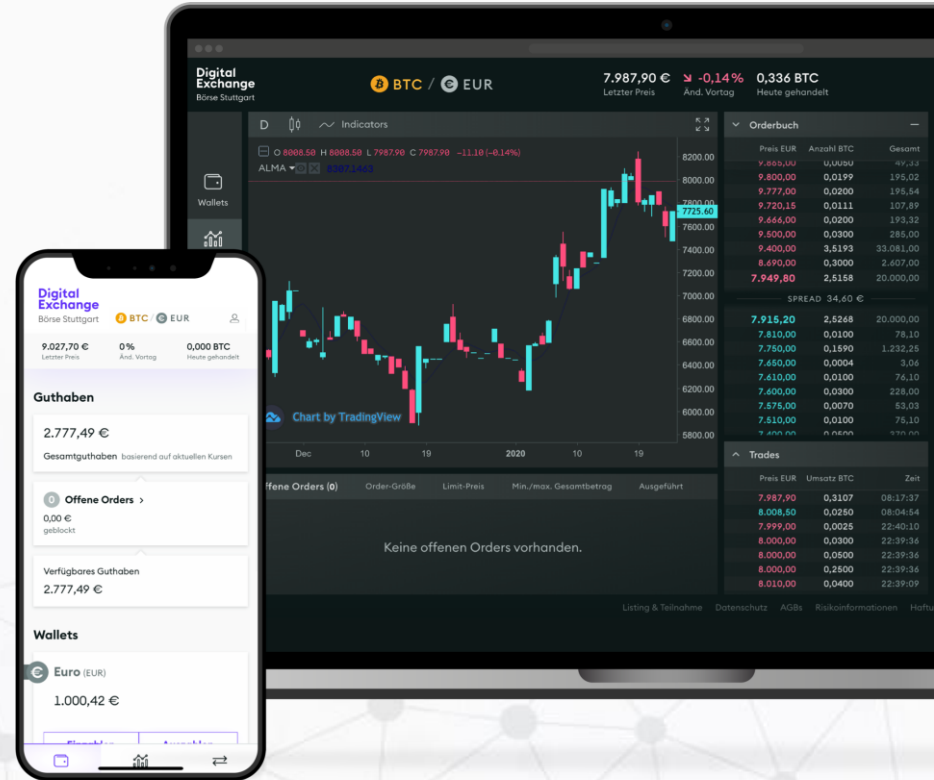


The trading venue BSDEX is operated by BWVB GmbH on the basis of § 2 para. 12 KWG. Especially with regard to trading organization, risk management and AFC/AML obligations, this gives BSDEX a first mover advantage over competitors in Germany as well as over unregulated crypto exchanges.

Börse Stuttgart Digital Exchange

Product & Platform Features

- Special volatility interruption to protect the investor in rapidly changing markets.
- Auction model that ensures stability and fair prices in times of high volatility and illiquid assets.
- Market, Limit and Stop Orders.
- Bitcoin, Ethereum and Altcoins like XRP, Litecoin, BitcoinCash, Uniswap and Chainlink
- Full-Service-Offer including Trading, Custody, Compliance.
- Connection via FIX or REST APIs, dedicated test environment.
- 24/7 availability and technical support.



Where to find what

- For summary information on market data click [here](#)
- FAQ you can find [here](#)
- Click [here](#) for the list of vendors
- Click [here](#) for contract documents
- Click [here](#) for the price list
- Order form can be found [here](#)

Specifications available upon request

Contact

Team Data

E-Mail: marketdata@boerse-stuttgart.de

Boerse Stuttgart GmbH
Börsenstraße 4
70174 Stuttgart
boerse-stuttgart.de

We are gladly available for further questions

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