



# Market Data Services



# The Market Data Services of CEESEG

Market Data Services is the business unit of the Vienna Stock Exchange that is responsible for data vending for the CEE Stock Exchange Group (CEESEG). The unit's team of experts provides sales and customer support, content management, market data dissemination and the data feed.

The CEE Stock Exchange Group (CEESEG) comprises the stock exchanges of Budapest, Ljubljana, Prague and Vienna. CEESEG is the largest group of exchanges in the Central and Eastern European region. The primary goal of the Group is to improve liquidity on the member stock exchanges by providing easier access to the local markets and products.

## **Internationalization of regional markets**

At the international level, CEESEG coordinates joint measures to increase the visibility of the four markets and to acquire professional market participants such as data vendors, index licensees, institutional investors and trading participants for the member stock exchanges.



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# One Data Feed – Ten Stock Exchanges

The data feed ADH of the Vienna Stock Exchange provides high quality, real-time price information and market depth for all Group exchanges:

- Budapest
- Ljubljana
- Prague
- Vienna

Additionally, the ADH also covers the Group's cooperation partners, the stock exchanges of:

- Banja Luka
- Belgrade
- Bucharest
- Macedonia
- Montenegro
- Sarajevo

As well as the market data of three energy markets:

- CEGH Gas Exchange
- EXAA – Energy Exchange Austria
- Power Exchange Central Europe

# Other Market Data

## Historical Price Data

Historical price data is important for understanding long-term market trends and for the development of new trading strategies. We provide historical price data for all markets customized to meet your specific needs.

## Reference Data

To ensure straight through processing you need accurate reference data on each single traded instrument. You can subscribe to the reference data from our database for one-time delivery or for daily delivery.

## Real-time Derived Data Policy/Non-Display Usage

Clients who would like to use real-time data in a non-display application or for index calculation need to sign a valid Market Data Agreement. Real-time calculation of derived data is the result of any calculation through processing, changing and/or combining our market data with other market data. It can also be the result of algorithms and/or data used in program trading. This is only permitted with a valid market data agreement.



## Stock Market Data

Exchange	Banja Luka	Belgrade	Bucharest	Budapest
Indices	■	■	■	■
Equities	■	■	■	■
Bonds	■	■	■	■
Investment Funds	■	■	■	■
Certificates				■
Warrants				■
ETFs				■
Futures			■	■
Options				■
Commodities				■
Derived Data	■	■	■	■
OTC Data			■	■

For any further questions regarding our data products and the market data agreement, please contact us at:  
[mds@ceeseg.com](mailto:mds@ceeseg.com)

	Ljubljana	Macedonian	Montenegro	Prague	Sarajevo	Vienna
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■		■	■
				■		■
				■		■
	■					■
				■		■
						■
	■		■	■	■	■
	■					■

You have the option of subscribing to the data in real time, with a 15-minute delay and/or as closing prices for the stock exchanges listed.

# Energy Markets

## Market Data Services provides the market data for:

- CEGH Gas Exchange of the Vienna Stock Exchange
  - Spot Market Gas Contracts (day ahead contracts)
  - Futures
  
- EXAA – Energy Exchange Austria in Vienna
  - Spot Market Energy Contracts (day ahead, single hour products and block products) covering Austria and Germany
  
- Power Exchange Central Europe (PXE) in Prague
  - Spot Market Energy Contracts (day ahead and hourly auctions) covering the Czech market
  - Monthly, quarterly and yearly futures contracts covering the Czech Republic, Hungary and Slovakia

	CEGH Gas Exchange	EXAA – Energy Exchange Austria	Power Exchange Central Europe
<b>Spot Market Electricity Contracts</b>		■ *	■
<b>Spot Market Gas Contracts</b>	■		
<b>Futures</b>	■		■ **

\* Covers Austria and Germany

\*\* Covers the Czech Republic, Hungary and Slovakia

# CEESEG Website Services

## Vendors Only

Vendors Only is a password-protected closed user group for data vendors of the CEE Stock Exchange Group. It contains the following information:

- Information and technical description of the ADH data feed
- The current version of the Market Data Agreement
- Archive of all Infoline e-mails

## Infoline

Infoline is a web-based information service for all subscribed data vendors. Data vendors receive e-mails via Infoline on upcoming market events such as new listings, stock splits, capital measures and/or changes to the data feed infrastructure. The information is accessible only in the Vendors Only zone and is free of charge for data vendors. A user name and password for the Vendors Only zone can be obtained by sending an e-mail to [mds@ceeseg.com](mailto:mds@ceeseg.com).

The screenshot displays the CEE Stock Exchange Group website. At the top left is the logo, a red square with a white 'C' inside, followed by the text 'cee stock exchange group'. A red navigation bar contains the following links: Home, About us, Group exchanges, Issuers, Investors, Data vendors, Trading members, and Indices. The main content area features a large graphic of a grid with a red diagonal line and the text 'Data vendors' in red. Below this, the breadcrumb 'Your Position > Home > Data vendors' is visible. The main heading is 'One data feed, nine markets'. The text below explains that CEESEG provides real-time price and market depth data from regional financial markets via the ADH data feed of the Vienna Stock Exchange. A list of markets includes Budapest, Ljubljana, Prague, and Vienna. A 'Downloads' box on the right contains a link for 'Market Data Services - Fact Sheet (pdf file 1 MB)'. At the bottom, there is a red banner with a repeating pattern of the phone number '31 36569854351673543213646798463516469313465676764312168761321454321364679846351646931346567676431'.

# The Data Feed ADH

## Benefits for Data Vendors at a Glance

- Save time and resources – you need only one technical connection
- Standardized data format
- Reduced administrative and legal expenses through one-stop shop
- Support via a dedicated hotline and help desk for data vendors

The ADH data feed was launched in April 2007 for receiving, processing and disseminating real-time data. ADH is a message-based data feed comprising additional data refinement functionalities and monitoring tools.

The data feed is designed as a redundant system and offers reduced latency, higher performance, easier recovery management and better data quality. ADH is a powerful state-of-the-art data dissemination system and consolidates data from various sources.

The market depth contains the **ten best bids and asks** for the cash markets of Belgrade, Prague, Sarajevo and Vienna and the best five bids and asks orders for all other markets.

More information is available via [datafeed@ceeseg.com](mailto:datafeed@ceeseg.com).



# ADH's Benefits in Detail

## **ONE Data Feed Architecture**

The ADH data feed offers data from all markets in a single consolidated format, the TIP protocol. This reduces your resources for IT maintenance and release management. Our data feed is based on a proven technology, it is fully recoverable and provides flexible and scalable configuration. All message types and structures are provided in an internationally standardized XML format.

## **ONE Connection**

Your company does not need to order data lines to nine different cities anymore. One connection provides all the data, saves valuable IT resources, and as a result, bandwidth capacity is used more efficiently. The Vienna Stock Exchange uses two independent data centres and two independent telecom providers.

## **One-stop Shop with Local Market Expertise**

You can subscribe to the markets through a one-stop shop concept with Vienna Stock exchange. This reduces administrative and legal work to a minimum and also places the local expertise of the individual markets at your disposal for any market-related queries.



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