



Low latency connectivity  
Tailored network solutions



# Low latency connectivity

## Tailored network solutions

### **Availability and speed matter**

Financial markets are subject to dramatic transformation. A decade ago, trading was a matter of open outcry, and the delivery of clearing and settlement processes was measured in terms of days. Today, streams of data cross the planet in real-time, prices and transactions are made on virtual marketplaces, and electronic networks connect financial institutions worldwide at lowest latency.

Information technology is the driving force behind this change. Communication increasingly matters for every player on today's financial markets. To ensure that essential business processes run as smoothly and efficiently as possible, the technical infrastructure has to meet the highest standards. Global reach, performance, reliability, lowest latency, security and cost efficiency are vital.

### **Tailored network solutions**

Are you developing or offering high-quality services for the financial industry? Do you need to connect your own sites? Do you want to deliver products and services to your customers? Then you know that delivering your products and services requires electronic connectivity that guarantees fast, reliable and secure access to your customers' sites or to your own. The costs of setting up and operating your own communications infrastructure are often prohibitive, and managing the necessary technical complexity may exceed your capacity or ambition. Deutsche Börse IT's low latency network is the appropriate solution for your needs. So you can focus on your core business and competencies.

Deutsche Börse can connect you with the major players of the financial services industry throughout Europe, North America and Asia. Or it can connect your own sites around the globe. Deutsche Börse IT's network delivers unique key features:

- Extremely high reliability and lowest latency
- Global reach
- Quality of service
- Quick and easy access
- Attractive price
- 24-hour service

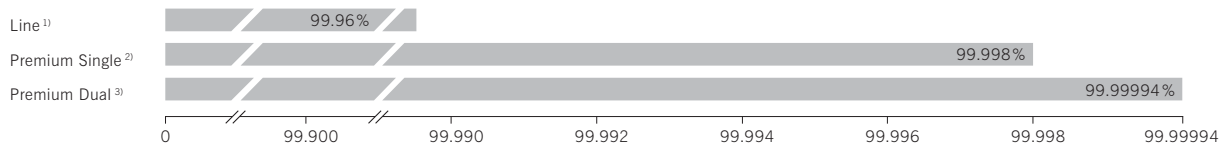
## Your benefits

# Being connected to Deutsche Börse IT's network

### Extremely high reliability and lowest latency

Deliver your products and services with industry-leading reliability and availability: Deutsche Börse IT has a proven track record of providing mission-critical services to the financial industry. The network has been designed to meet the high demand for ultra low latency. Continuous monitoring, immediate escalation upon failure and systematic selection of best services and components increases the line availability of Deutsche Börse IT's network to an average of over 99.9 percent for a single, non-resilient link – about ten times higher than the 99 percent rate typically offered by carriers. By managing different carriers with separate infrastructures (keyword “dual rail”), we were able to increase network availability to 99.99994 percent in 2011 – achieving an outage time of less than 20 seconds per year! What does this mean for you? You can focus on your business.

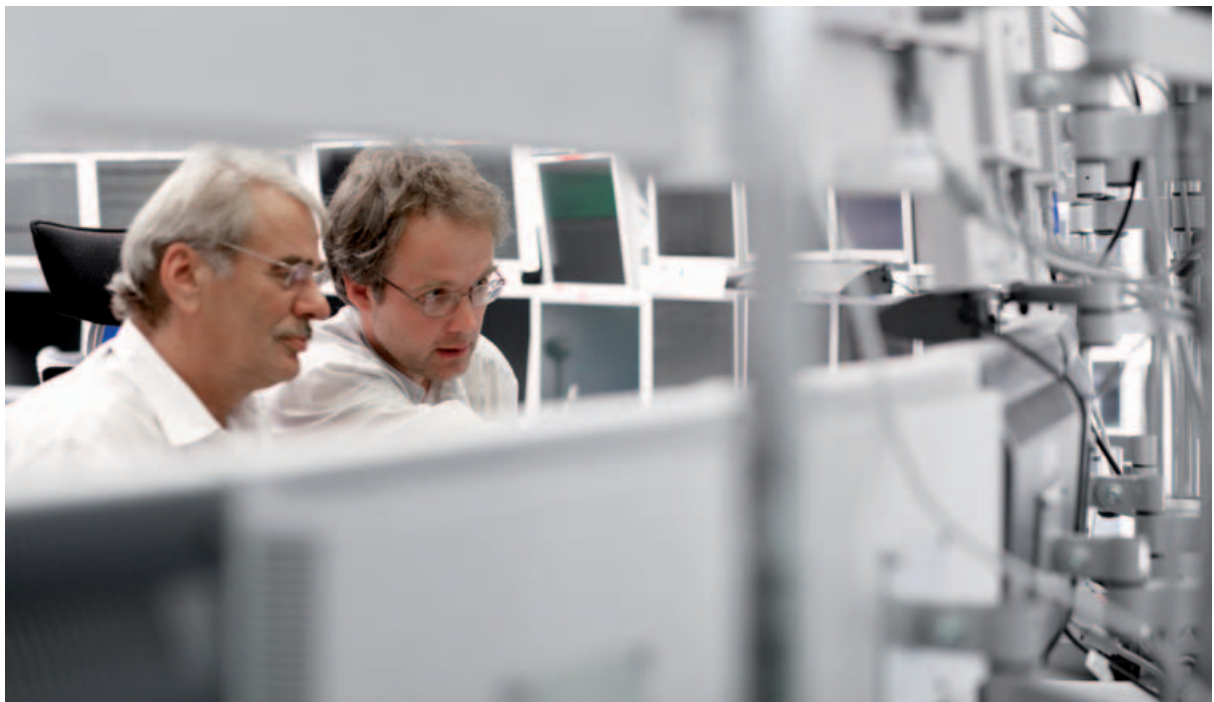
#### Line availability



1) Line Availability: availability for customers with telecommunication lines monitored and managed by Deutsche Börse IT

2) Premium Single Rail: availability for customers with two leased lines using one carrier

3) Premium Dual Rail: availability for customers with two leased lines using two separate carriers

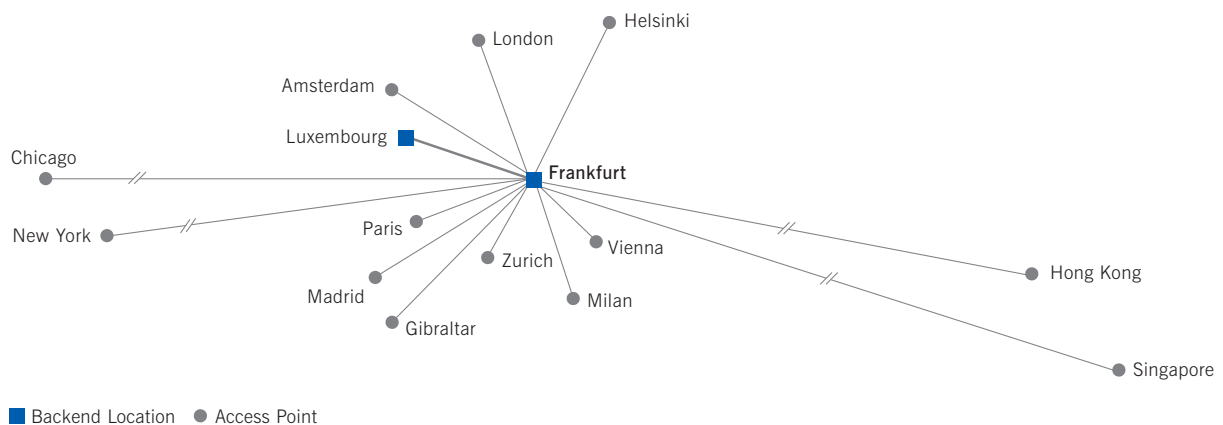


## Global reach

Deliver your products to customers throughout Europe, North America and Asia via Deutsche Börse IT's network. In total, Deutsche Börse IT provides over 6,000 connections in 26 countries. You will be able to deliver your products and services to all network participants – these include all major institutions of the financial services industry. New participants can be easily and swiftly connected.

As an independent and neutral supplier, Deutsche Börse IT currently manages and delivers over 40 applications for both Deutsche Börse Group and external customers. Customers include Clearstream International, dwpbank (Deutsche WertpapierService Bank), European Energy Exchange (EEX®), Eurex, Banco Bradesco, Irish Stock Exchange, SIX Swiss Exchange and Wiener Börse.

### Deutsche Börse IT's network



## Quality of service

Communicate with your customers in a direct, reliable and secure way. Deutsche Börse IT's network uses state-of-the-art technology and meets highest performance, security and service standards. Backend locations and access points as well as the data lines are fully redundant resulting in no single point of failure.

In addition, the IP broadband network delivers secure and separate virtual private network (VPN) connectivity. Dedicated capacity is assigned to your individual VPN connectivity; there is no interference between the separate networks. The result: instant packet delivery, no bandwidth bottlenecks.

### Quick and easy access

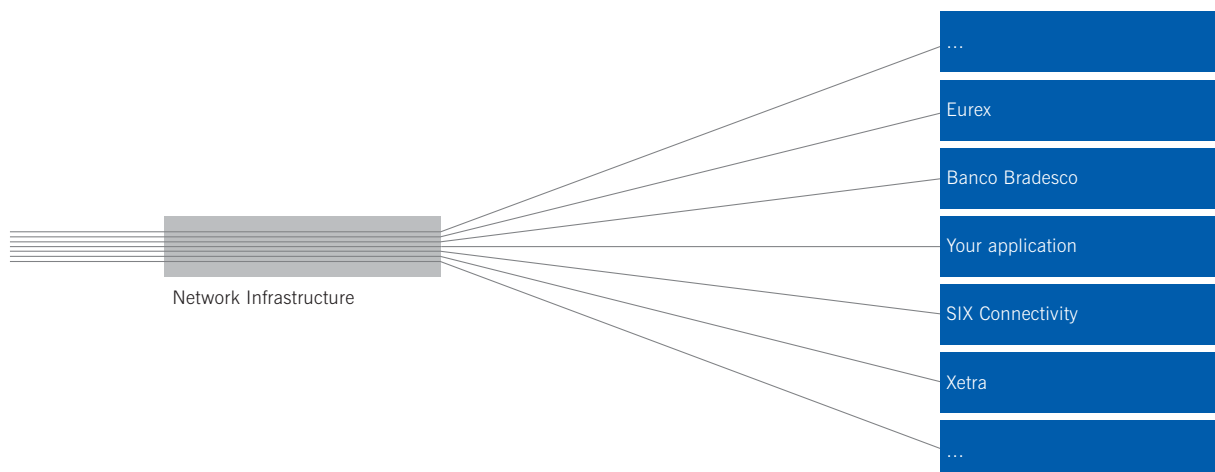
Gain quick and easy access to the leading financial institutions worldwide – by using Deutsche Börse IT's low latency network instead of building your own. Time to market matters: connections to customers already on Deutsche Börse IT's network will be established within few days; in comparison, connection with international carriers requires between four to eight weeks. When Deutsche Börse IT provides the technical infrastructure you can focus on developing your business and on marketing your services.

### Attractive pricing

Benefit from the expertise and capacity of an established and experienced international provider. Deutsche Börse IT offers you the benefits of IT standardisation, wholesale purchase of a large number of leased lines as well as synergies enabled through shared network infrastructure and the operation of multiple applications. Building and operating your own network is expensive – getting connected via Deutsche Börse IT's network is a highly cost-effective and flexible alternative.

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#### Customers and applications on Deutsche Börse IT's network



### 24-hour service

Rely on our technical support services. Operational processes, such as member setup, change management, problem management, capacity management and performance analysis are highly integrated to assure maximum efficiency. Deutsche Börse IT operates a customer support organisation, that is available around the clock on every exchange trading day; our experienced English and German speaking staff is distributed over our locations in Frankfurt, Chicago and Prague.

### References

- **Eurex®:** The network for Eurex, one of the world's largest futures and options exchanges, connects a broad global customer base with highest throughput and lowest latency. Availability rates approach the ultimate 100 percent.
- **Xetra®:** The electronic trading system for the German cash market attracts liquidity from all over Europe. This is made possible by highest availability and broad coverage.
- **dwpBank:** As an application service provider (ASP) for dwpbank (Deutsche WertpapierService Bank), Deutsche Börse IT network provides connectivity.
- **Banco Bradesco:** Deutsche Börse IT runs the network infrastructure for the private banking application hub for Banco Bradesco.
- **SIX:** Deutsche Börse IT's network provides low latency connectivity to SIX Swiss Exchange trading platforms.



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