Xetra Circular 167/08

DEUTSCHE BÖRSE

High Priority!

To all Trading Members admitted at Frankfurt Stock Exchange and Vendors

Recipients: Traders, Technical Contacts, Nominated Persons, General

Deutsche Börse AG

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September 17, 2008

Introduction of two new optional Interfaces: Enhanced Transaction Solution and Enhanced Broadcast Solution – Extension of Xetra Network Connection Portfolio

Dear Sir or Madam,

In conjunction with the introduction of Xetra Release 10.0, Deutsche Börse AG is planning to introduce two new optional interfaces: **Enhanced Transaction Solution** and **Enhanced Broadcast Solution,** as well as the extension of the Xetra® network connection portfolio.

With the present circular, we intend to inform you about the major features of the two optional interfaces. We also provide instructions for the ordering process including lead times to be observed. Please refer to attachment "Extended Xetra Connection Portfolio" for functional and technical details of the new services.

Xetra Release 10.0 will be introduced on June 8, 2009, simulation will start on March 23, 2009. In order to test the new Enhanced Transaction Solution and Enhanced Broadcast Solution interfaces as of the simulation start, Members are required to submit their orders for the new line infrastructure **by November 15, 2008**.

Enhanced Transaction Solution

Enhanced Transaction Solution is a new socket-based interface to the order and quote management features on Xetra which will be offered optionally and in parallel to the existing VALUES/MISS infrastructure.

Chairman of the
Supervisory Board
Kurt F. Viermetz

Executive Board
Reto Francioni
(Chief Executive Officer)
Andreas Preuß
(Deputy Chief Executive Officer)
Thomas Eichelmann
Frank Gerstenschläger
Michael Kuhn
Jeffrey Tessler

Aktiengesellschaft
mit Sitz in
Frankfurt/Main
HRB Nr. 32232
Amtsgericht
Frankfurt/Main

Enhanced Broadcast Solution

Enhanced Broadcast Solution is a new multicast-based interface for transmission of order book and trade information ("public broadcast") which will be offered optionally and in parallel to the existing VALUES/MISS infrastructure.

Increased Efficiency and Speed

Enhanced Transaction Solution and Enhanced Broadcast Solution offer advantages in efficiency and speed primarily in automated electronic trading (algorithmic trading). Compared to a connection via VALUES/MISS, Members can significantly reduce their order roundtrip times and receive market data in a faster way. A connection to Xetra via MISS/VALUES will continue to be required for receiving trade confirmations and for administrative tasks (e.g. set-up and maintenance of trader IDs).

Extension of Xetra Network Connection Portfolio

Together with the introduction of the new interfaces the overall options for connecting to Xetra will also be extended: In future, members will be able to consolidate the various connection services (standard connections, Enhanced Broadcast Solution and Enhanced Transaction Solution) on one single leased line with extensive bandwidth.

Line Ordering Process

You can place your orders online in the "Xetra/Floor Members Only" section (https://business.deutsche-boerse.com under Service Point > Technical Services > Tickets & Requests) or use the attached form. Please call Customer Technical Support Xetra on +49-(0) 69-2 11-1 84 00 should you need support in using the Tickets & Requests feature.

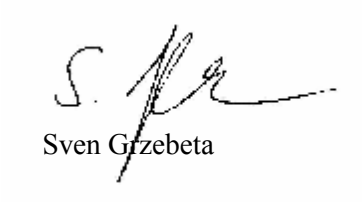
We are planning to provide the required agreements for usage of Enhanced Broadcast Solution (Enhanced Broadcast Solution Connection Agreement and Deutsche Börse Market Data Dissemination Agreement) at the end of September. Multi-Member front-end system operators will be sent the required agreements for usage of the new connection alternatives upon request.

For any further questions you may have please contact our Member Services & Admission Team, telephone +49-(0) 69-2 11-1 16 40.

Yours faithfully



Rainer Riess



Sven Grzebeta

Attachments
Extended Xetra Connection Portfolio (including price overview)
Xetra Access Form Order/Cancellation

Attachment to Xetra circular 167/08

Extended Xetra Connection Portfolio

Enhanced Transaction Solution

The Enhanced Transaction Solution is a new, optional, message-based interface which provides high-speed access to the Xetra® trading system. It provides core trading facilities and focuses on order and quote management features.

Enhanced Transaction Solution will be offered as an optional service in parallel to the existing MISS-based connection via the VALUES API interface.

Main features of Enhanced Transaction Solution

a. Message-based

Enhanced Transaction Solution is an asynchronous, message-based interface. The Enhanced Transaction Solution connection between Member firm and Xetra system is established via the TCP connection.

In contrast to connecting via VALUES API, Members do not need to install software provided by Deutsche Börse AG. A description of the Enhanced Transaction Solution interface will be published in XML format and as Enhanced Transaction Solution manual in PDF format.

b. Session-oriented

Enhanced Transaction Solution is a session-oriented interface with the session being the most important context for interaction with the Xetra system.

Enhanced Transaction Solution-based applications receive information about orders and quotes which were entered in their own session. Several trader subgroups may share a single session, but every session may only be instantiated once.

c. Open interface

The Enhanced Transaction Solution allows Members to use any combination of operating systems and compiler versions in any programming language in order to connect to the Xetra system.

d. Low footprint solution

Enhanced Transaction Solution is an optimized interface with few requirements for the infrastructure on the Member side ("low footprint"), thus is based on few data fields and application messages.

e. Simplicity through separation of different layers

Within Enhanced Transaction Solution, there is a strict separation between the single components of the interface (e.g. message flow, application messages and encoding) in relation to their level of abstraction.

f. Full control in case of a failover

Enhanced Transaction Solution does not include mechanisms for a possible failover. However, features, for example heartbeats, are provided to allow for detection of technical disturbances between customer application (trading session) and the Xetra system. However, an appropriate failover concept has to be implemented via the customer application.

Deutsche Börse AG will publish a detailed interface specification in order to supply Members with more information about Enhanced Transaction Solution. This document will contain the interface's functional concept, a detailed description of the functionality provided, a complete specification of the layout of messages and data as well as a definition of the encoding system.

In addition to this interface specification, Deutsche Börse AG will publish an updated version of the „Network Access to Exchange Applications" document.

Session IDs

On the Exchange side, connection of client applications with the Xetra system will be established via so-called application gateways to which the single client session is connected. Each particular session is assigned a unique session ID.

Each Member firm will be allowed to apply for up to 25 individual session IDs for itself. Deutsche Börse AG will provide two session IDs free of charge. Members who apply for more than two session IDs will be charged a fee for each additional session ID according to the fees shown in the price list incorporated in this document. For simulation purposes, you may use a maximum of ten session IDs in permanent simulation and a maximum of five session IDs in Advanced Simulation. Simulation sessions are free of charge.

In order to prevent single client sessions generating excessively high transaction frequencies which might adversely affect exchange trading as a whole and for the purpose of guaranteeing fairness between client sessions, a limited number of transaction requests per second may be transmitted by each client session to the Xetra system.

Activation of a so-called “throttle” will be made with the same parameters as the for architecture throttle for the existing MISS architecture.

Bandwidth Portfolio for Enhanced Transaction Solution Connections

In order to enable the Members to select the appropriate bandwidth which is best suited to meet their requirements, Deutsche Börse AG will offer to its Xetra Members a choice between 2 Mbit/s and 10 Mbit/s bandwidth for usage of the Enhanced Transaction Solution. Enhanced Transaction Solution connections will always be implemented as so-called “shaped bandwidth”, thus will generally have the same serialization time as the underlying line.

Internet-based connections are not offered for the Enhanced Transaction Solution service.

Enhanced Broadcast Solution

The Enhanced Broadcast Solution offers a new, high-performance, functionally enhanced transmission mechanism for un-netted market information. The Enhanced Broadcast Solution will initially be introduced with Xetra Release 10.0 in parallel with the "Un-Netted Inside Market Broadcast" via VALUES. Thereby, Members will be able to migrate to the new interface within a longer period of time. In the future, transmission of un-netted market data will be made exclusively via Enhanced Broadcast Solution. Additional information about discontinuation of support of "Un-Netted Inside Market Broadcast" via VALUES will be distributed in a separate circular at a later date.

Similar as with the existing "Un-Netted Inside Market Broadcast" via VALUES, the Enhanced Broadcast Solution will be provided as an optional service for transmission of un-netted market data. Dissemination of netted price information via the existing MISS architecture (Public Inside Market Broadcast) using the VALUES API connection remains unchanged. Transaction data and specific customer dates (Private Broadcast) will continue to be transmitted via the current connection or via the new Enhanced Transaction Solution.

Due to the elemental changes in concept design between the un-netted Inside Market Broadcast via VALUES and Enhanced Broadcast Solution, existing applications have to be adjusted to the new interface.

Market data transmission concept

The transmission mechanism for market data via Enhanced Broadcast Solution is based on the principle of a subscription model. A reference data stream transmits information about all products including assignment of product, order book depth and the corresponding multicast address. Client applications can process this information automatically on a daily basis. In case of changes, manual re-configuration is not required.

Market data is disseminated in regular intervals in the form of complete order book information streams (so-called „snapshot broadcasts"). If the order book situation changes between two snapshot broadcast disseminations, so-called "delta broadcasts" will be distributed in a parallel data stream.

a. Snapshot Broadcasts

- contain complete order book information for a specific product at a specific point in time
- broadcast dissemination on a separate multicast address in regular intervals about delta broadcasts of the same product group
- form the data basis to which the delta broadcasts refer
- contain information as to which delta broadcasts are included in the snapshot

b. Delta Broadcasts

- contain absolute values which are disseminated whenever an event with influence on the market (e.g. orders or transactions) takes place. Only the changes that took place in the market (delta) are transmitted.
- contain consecutive numbers so that a possible loss of previous broadcast transmissions during system outage or under peak load can be detected.

Synchronization of broadcast transmission in the various streams for display of the complete order book has to be made by the recipient's application.

Each broadcast transmission is sent to two different multicast addresses in order to minimize the risk of losing the complete package (live-live principle). Also, in case of communication/line connection problems of the client application, this principle allows for fast and smooth bridging. Members will need two separate connections for Enhanced Broadcast Solution in order to implement this concept on their side.

We will publish more detailed information about the specification of the interface to Enhanced Broadcast Solution in a separate document. Please see the Xetra Release 10.0 communication calendar to be distributed in October 2008 for the publication dates of further documentation.

Main functional features of the Enhanced Broadcast Solution

a. Order book depth for Xetra securities

Currently only the ten best bid and ask prices for securities are disseminated. The Enhanced Broadcast Solution is able to supply additional order book depth.

b. Subscription model

Xetra instruments are divided in broadcast groups or "streams" (e.g. DAX, Exchange Traded Funds and Commodities, Irish Stock Exchange etc.).

c. Flexible configuration

Set-up of the Enhanced Broadcast Solution is flexible and can be easily configured to accommodate changes in market requirements. The configuration parameters below can be altered by Deutsche Börse AG within one day and will become active on the next business day:

- addition of new broadcast streams and assignment of instruments to broadcast streams
- market depth provided per broadcast stream
- multicast addresses for a particular broadcast stream
- time intervals at which the snapshot broadcast is published

The additional flexibility provided through Enhanced Broadcast Solution requires that also configuration of applications on the Member side allows processing of short-notice modifications.

Technical features of Enhanced Broadcast Solution

a. Low latency time

The Enhanced Broadcast Solution optimizes the entire process of market data dissemination and minimizes latency time between the occurrence of an event and the time at which Members can view the resulting market information.

High-speed data transmission is implemented using the latest IP multicast protocol. By selecting bandwidths of a leased line for the market data network according to the sizing guidelines, Members may design their infrastructure according to their specific needs for receiving market data. Enhanced Transaction Solution connections are always implemented as so-called „shaped bandwidth", thus will generally have the same serialization time as the underlying line.

b. Low footprint solution

The Exchange will not provide any front-end software. Members can use the Enhanced Broadcast Solution independent of their operating system, compiler version and programming language. Also, the Enhanced Broadcast Solution does not require any specific hardware and thereby enables Members to easily integrate the new interface in their existing IT infrastructure.

c. Compliance with industry standards

The Enhanced Broadcast Solution uses a high-performance protocol with similarity to the FIX 5.1 protocol which can be used effectively by Members and vendors to develop own applications. The FAST protocol is used for data compression.

Broadcast groups and indicators for sizing network bandwidths (Enhanced Broadcast Solution)

Below table gives an overview of existing broadcast groups. The table also shows the bandwidth necessary for dissemination of data contained in the specific streams at the production start in June 2009. Utilization of bandwidth was calculated on the basis or order/quote activity during peak load times. New features provided with Enhanced Broadcast Solution like snapshot broadcasts and extended market depth require additional bandwidth. Also, an extended transaction load due to performance improvements and extended capacity were considered. The indicated bandwidth shows the maximum bandwidth rounded up to limits of 1, 2, 5.

When calculating your own bandwidth requirements, kindly note the following general considerations:

The required bandwidth is primarily dependent on the order/quote activity in instruments assigned to the indicated groups. If the quoting activity intensifies, also the values may increase considerably.

We recommend that you add another margin in addition to the capacity requirements in order to eliminate the possibility of message loss and message queuing during peak load times and to ensure that a possible future market growth is accommodated by the capacity selected.

As peak loads occur in the various broadcast groups at different times, it is not possible to calculate bandwidth requirements for subscription to various groups directly by adding the values indicated for each of the groups.

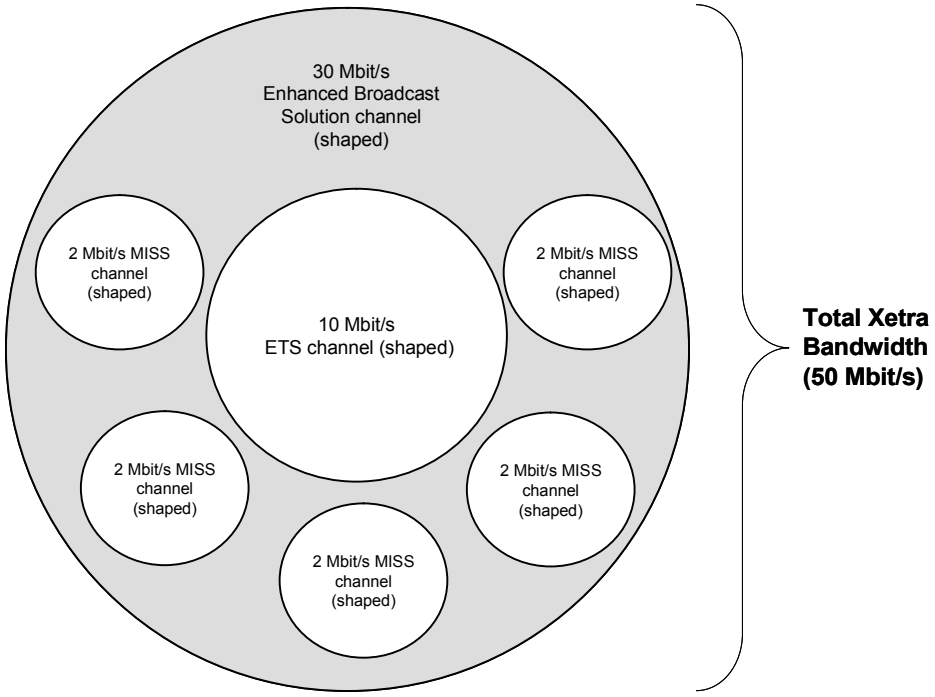
Broadcast Stream (MISS)	Exchange	Instrument Group/Content	Required Bandwidth (Mbit/s)
H	ETR	DAX1	2
I	ETR	Exchange Traded Funds and Commodities	5
J	ETR	MDAX, SDAX, TEC DAX and other German Equities	2
K	ETR	European Stars and other European Equities	2
L	ETR	US Stars and other North and Central American Equities	1
M	ETR	Rest of ETR	1
N	EUB	Eurex Bonds	1
P	DUB	Irish Stock Exchange	1
Q	BSE	Bulgarian Stock Exchange	1
		Total	16

Consolidation of Xetra® Network Connections

In order to provide Members with the maximum flexibility and efficiency when implementing the various connection services to the Xetra market places, Deutsche Börse AG will offer as of Xetra Release 10.0 the opportunity to consolidate VALUES, Enhanced Broadcast Solution and Enhanced Transaction Solution connections on one physical line (so-called "consolidated connection").

Member firms will be able to divide the bandwidth selected for Enhanced Broadcast Solution into several logical "channels" and, in addition to the Enhanced Broadcast Solution connection, run MISS and Enhanced Transaction Solution connections on it, too. Each of the channels always have the same serialization time as the underlying physical line, independent of the individual capacity of the single channel (so-called "shaped bandwidths").

The following illustration shows an example of such a configuration.



When selecting the bandwidth suitable for their specific needs, Members are requested to observe the following restrictions:

- One physical line can only contain one logical Enhanced Transaction Solution channel.
- Per IP subnet, a maximum of two Enhanced Transaction Solution channels can be connected.
- One physical line can only contain one Enhanced Broadcast Solution channel.
- One Enhanced Broadcast Solution channel must have a bandwidth of at least 10 Mbit/s (max. 50 Mbit/s).
- MISS channels can have a bandwidth of 512 kbit/s or 2 Mbit/s.
- Enhanced Transaction Solution channels can have a bandwidth of 2 Mbit/s or 10 Mbit/s.

For failover purposes, two connections with identical configuration must be ordered.

Owing to the variety of locations and the resulting dependency on various telecommunication providers, delivery of new network connections for the new Enhanced Broadcast Solution and Enhanced Transaction Solution interfaces and the new consolidated connection portfolio may take more than 16 weeks.

We request Members to consider the necessary lead time when placing their orders.

Overview of Prices

With the introduction of the Enhanced Transaction Solution together with the extension of connection alternatives, the existing price model for connecting to Xetra will be expanded. Existing prices for connection services will remain unchanged.

a. Enhanced connectivity service fee

Connection prices for the new connection alternatives Enhanced Transaction Solution and Enhanced Broadcast Solution are composed of a price for provision of physical bandwidth and an enhanced connectivity service fee. The enhanced connectivity service fee is charged for provision of backbone and gateway capacity for the new interfaces. It is charged both for connections to the new interfaces via dedicated leased lines and connections via consolidated connections.

b. Connection to Xetra via Enhanced Transaction Solution

For access to Xetra via Enhanced Transaction Solution, Members can select between bandwidths of 2 Mbit/s and 10 Mbit/s. Connections can be implemented via a dedicated leased line or via set-up of logical channels on a consolidated connection. The various connection alternatives have the following monthly fees:

Each 10 Mbit/s leased line	see prices for Enhanced Broadcast Solution connections with 10 Mbit/s
Each 2 Mbit/s channel (within consolidated connection)	EUR 800
Each 10 Mbit/s channel (within consolidated connection)	EUR 1,400

c. Enhanced Broadcast Solution and consolidated connections

The following table shows the prices for usage of Enhanced Broadcast Solution via dedicated connections or via consolidated connections for various bandwidths and dependent on the location of the Member installation:

Xetra connection prices Enhanced Broadcast Solution / consolidated Xetra connection

Level	10 MB	20 MB	30 MB	40 MB	50 MB	Locations
0	not available	not available	not available	not available	500 €	Proximity
1	1.500 €	2.000 €	2.300 €	2.500 €	2.700 €	Amsterdam, Dublin, Frankfurt, London, Milan, Paris, Zurich
2	4.500 €	6.000 €	7.000 €	7.500 €	8.000 €	Germany, United Kingdom, Switzerland
3	on request	on request	on request	on request	on request	other locations

The prices include provision of bandwidth for Enhanced Broadcast Solution and are applied per connection. Two connections are charged in case of a redundant design.

d. Connections via VALUES/MISS

The standard connections via MISS architecture (512 kbit/s, 2 Mbit/s and 1 Gbit/s) will continue to be available without price changes. In addition to this, existing or new standard connections can be implemented by setting up logical channels within one consolidated connection. For implementing a VALUES/MISS channel via a consolidated connection the following monthly fees apply:

Each 512 kbit/s channel	EUR 600
Each 2 Mbit/s channel	EUR 800

For a consolidated connection, any number of VALUES/MISS channels (up to the capacity limit of the selected bandwidth) can be ordered.

e. Sessions for Enhanced Transaction Solution

Each Member is provided two sessions free of charge. For additional sessions, the following fees apply:

Each session (as of the 3rd session)	EUR 500
Each session (as of the 11th session)	EUR 900

Sessions in simulation are free of charge. In Permanent Simulation, a maximum of ten sessions, in Advanced Simulation, a maximum of five sessions are provided free of charge.

f. Calculation example

A Member orders a consolidated connection with a bandwidth of 40 Mbit/s for its Frankfurt location. Within this consolidated connection, the Member wants to use an Enhanced Trading Solution channel with 10Mbit/s bandwidth. Furthermore, it migrates two 512 kbit/s MISS connections into the consolidated connection. The Member requires an additional session for usage of Enhanced Transaction Solution.

Distribution of bandwidth:

Consolidated connection	40 Mbit/s
- Enhanced Transaction Solution	10 Mbit/s
- 2 x MISS channel 512 kbit/s	1 Mbit/s
= remaining bandwidth (available for Enhanced Broadcast Solution)	29 Mbit/s

Fee calculation:

Enhanced connectivity service fee	EUR 1,500
Consolidated connection 40 Mbit/s in Frankfurt (including Enhanced Broadcast Solution)	EUR 2,500
Enhanced Transaction Solution 10 Mbit/s	EUR 1,400
2 x MISS channel 512 kbit/s	EUR 1,200
1 additional session	EUR 500
Total per connection	EUR 7,100

Prices stated are per connection (without redundant design).

For simulation purposes, a maximum of ten session IDs in Permanent Simulation and a maximum of five session IDs in Advanced Simulation will be provided. Simulation sessions are free of charge.

Xetra® - Zugangsformular: Bestellung/Kündigung

- Access Form: Order/Cancellation

DEUTSCHE BÖRSE

Deutsche Börse AG
Markets Services
D-60485 Frankfurt am Main

Fax: +49-(0)69-211-610502

Auftraggeber / *Applicant*

Name des Unternehmens / *Name of Company*

Straße oder Postfach / *Street or Post Box*

Land, PLZ und Ort / *Country, Postal Code and Town*

Telefon / *Phone* Fax

E-Mail / *e-mail*

Member ID

Hiermit erteilen wir den Auftrag zur Anbindung an einen Access Point der Gruppe Deutsche Börse.
We hereby apply for the connection via a access point of Deutsche Börse Group.

☐ Anbindungsbestellung/
Connection order

☐ Anbindungskündigung zum (TT.MM.JJJJ)/
Connection cancellation effective (DD.MM.YYYY)

Anmerkung: Bei Anbindungsbestellung besteht nicht die Möglichkeit einen bestimmten Termin zur Einrichtung der Anbindung zu wählen.
Note: When you order a connection you may not select a particular date for set up of the connection.

Bei Kündigung bestehender Anbindung(en) Angabe der Installations-ID(s) /
For cancellation of existing connection(s) please list installation ID(s)

1.:

2.:

☐ **Xetra Einzelanbindungen**
Xetra single connections

Siehe Abschnitt 1 / *See chapter 1*

☐ **Konsolidierte Anbindungen**
Consolidated connections

Siehe Abschnitt 2 / *See chapter 2*

1. Xetra Einzelanbindungen / *Xetra single connections*

1.1 VALUES (MISS) - Anbindung(en) / *VALUES (MISS) connection(s)*

Anzahl *No.* 512 kbit/s Bandbreite einer Standleitung *512 kbit/s bandwidth of a leased line*

Anbindungen mit 512 kbit/s Bandbreite einer Standleitung müssen redundant, entweder durch mindestens eine zusätzliche 512 kbit/s Bandbreite einer Standleitung oder eine 512 kbit/s Internetanbindung, ausgelegt sein. *Connections with 512 kbit/s bandwidth of a leased line must be construed redundant, either by at least one additional 512 kbit/s bandwidth of a leased line or by an 512 kbit/s Internet connection.*

Anzahl *No.* 512 kbit/s Internetanbindungen[1] *512 kbit/s Internet connections [1]*

Anzahl *No.* 2 Mbit/s Bandbreite einer Standleitung *2 Mbit/s bandwidth of a leased line*

Anbindungen mit 2 Mbit/s Bandbreite einer Standleitung müssen mit der gleichen Bandbreite redundant auf einer separaten Standleitung ausgelegt sein. *Connections with 2 Mbit/s bandwidth of a leased line must be construed redundant with the same bandwidth on a separate leased line.*

Anzahl *No.* 1 Gbit/s Bandbreite einer Standleitung *1 Gbit/s bandwidth of a leased line*

Anbindungen mit 1 Gbit/s Bandbreite einer Standleitung müssen mit der gleichen Bandbreite redundant auf einer separaten Standleitung ausgelegt sein. *Connections with 1 Gbit/s bandwidth of a leased line must be construed redundant with the same bandwidth on a separate leased line.*

1 Gbit/s Angebotsnummer /
1 Gbit/s Quotation number _ _ _ _ _ _ _

[1] Die Festverbindung zum Internet Service Provider (ISP) wird vom Auftraggeber selbst beauftragt. Die vom ISP bereitgestellte IP-Adresse ist der Deutsche Börse AG mitzuteilen. / *A dedicated connection between the customer and his Internet Service Provider (ISP) must be ordered by the applicant. The applicant is requested to name Deutsche Börse AG the IP-address provided by the ISP.*

1.2 Enhanced Transaction Solution
- verfügbar mit Simulationsstart Xetra 10.0 (voraussichtlich am 23.03.2009)
- *available with start of Xetra 10.0 simulation (expected for 23.03.2009*)

Anzahl / *No.* _____ ☐ 10 Mbit/s

Anzahl / *No.* _____ Session(s) für Produktion/ *Session(s) for production*

Anmerkung: Maximal 25 Sessions pro Member-ID. Die ersten beiden Sessions pro Member-ID sind kostenfrei.
Note: Maximum of 25 sessions per Member ID. The first two sessions per member ID are free of charge.

Installations-ID / *Installation ID:* _____

Anzahl / *No.* _____ Session(s) für Simulation/ *Session(s) for simulation*

Anmerkung: Maximal zehn Sessions für Simulation pro Member-ID. Diese Sessions sind kostenfrei.
Note: Maximum of ten sessions for simulation per Member ID (free of charge).

Installations-ID / *Installation ID:* _____

Anzahl / *No.* _____ Session(s) für Advanced Simulation/ *Session(s) for advanced simulation*

Anmerkung: Hierfür ist ein Advanced Simulation Zugang notwendig. Maximal fünf Sessions pro Member-ID. Diese Sessions sind kostenfrei.
Note: For this purpose an advanced simulation access is required. Maximum of five sessions per Member ID (free of charge).

Installations-ID / *Installation ID:* _____

☐ bestellte Anbindungen sollen innerhalb eines Subnetzes konfiguriert werden/
connections ordered should be configured within the same subnet

1.3 Enhanced Broadcast Solution

☐ 10 Mbit/s ☐ 20 Mbit/s ☐ 30 Mbit/s ☐ 40 Mbit/s ☐ 50 Mbit/s

Anzahl / *No.* _____ Anbindung(en)/ *connection(s)*

☐ bestellte Anbindungen sollen innerhalb eines Subnetzes konfiguriert werden/
connections ordered should be configured within the same subnet

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2. Konsolidierte Anbindungen / *Consolidated connections*

- verfügbar mit Simulationsstart Xetra 10.0 (voraussichtlich am 23.03.2009)
- *available with start of Xetra 10.0 simulation (expected for 23.03.2009*)

☐ Bestellung von zwei identisch konfigurierten konsolidierten Anbindungen (Anm.: Redundanz vorgeschrieben für Handelslokationen)
Order of two identically configured consolidated connections (Note: redundancy mandatory for Trading Locations)

☐ Bestellung einer einzelnen konsolidierten Anbindung (Anmerkung: nur möglich für Desaster Recovery-Lokationen)
Order of a single consolidated connection (Note: only possible for Desaster Recovery Locations)

☐ Änderung einer bestehenden konsolidierten Anbindung/ *Modification of an existing consolidated connection* Installations-ID / *Installation ID:* _____

Gesamtbandbreite der konsolidierten Anbindung / Total bandwidth *of consolidated connection*

☐ 10 Mbit/s ☐ 20 Mbit/s ☐ 30 Mbit/s ☐ 40 Mbit/s ☐ 50 Mbit/s

2.1 VALUES (MISS) / *VALUES (MISS)*

Anzahl / *No.* _____ ☐ 512 kbit/s pro Anbindung/ *per connection*

Anzahl / *No.* _____ ☐ 2 Mbit/s pro Anbindung/ *per connection*

2.2 Enhanced Transaction Solution
Anmerkung: Nur eine pro Anbindung
Note: Only one per connection

☐ 2 Mbit/s oder/ or ☐ 10 Mbit/s

Anzahl / *No.* _____ Session(s) für Produktion/ *Session(s) for production*

Anmerkung: Maximal zwanzig Sessions pro Member-ID. Die ersten beiden Sessions pro Member-ID sind kostenfrei.
Note: Maximum of twenty sessions per Member ID. The first two sessions per Member ID are free of charge.

Installations-ID / *Installation ID:* _____

Anzahl / *No.* _____ Session(s) für Simulation/ *Session(s) for simulation*

Anmerkung: Maximal zehn Sessions für Simulation pro Member-ID. Diese Sessions sind kostenfrei.
Note: Maximum of ten sessions for simulation per Member ID (free of charge).

Installations-ID / *Installation ID:* _____

Anzahl / *No.* _____ Session(s) für Advanced Simulation/ *Session(s) for advanced simulation*

Anmerkung: Hierfür ist ein Advanced Simulation Zugang notwendig. Maximal fünf Sessions pro Member-ID. Diese Sessions sind kostenfrei.
Note: For this purpose an advanced simulation access is required. Maximum of five sessions per Member ID (free of charge).

Installations-ID / *Installation ID:* _____

☐ bestellte Anbindungen sollen innerhalb eines Subnetzes konfiguriert werden/
connections ordered should be configured within the same subnet

2.3 Enhanced Broadcast Solution

☐ Ja / *Yes*

☐ Nein / *No*

Anmerkung: Bei verschiedenen Services auf der Grundleitung müssen mindestens 10 Mbit/s für Enhanced Broadcast Solution nutzbar sein. Falls 10 Mbit/s oder mehr Kapazität frei ist, wird diese restliche Bandbreite für Enhanced Broadcast Solution eingerichtet.
Note: If several services are used on the same basic line, please make sure that a capacity of at least 10 Mbit/s for Enhanced Broadcast Solution is available. If there is 10 Mbit/s capacity or more available, this access bandwith will be set up for Enhanced Broadcast Solution.

☐ bestellte Anbindungen sollen innerhalb eines Subnetzes konfiguriert werden/
connections ordered should be configured within the same subnet

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3. Angaben zu Lokation und Installation / *Location and installation information*

Lokation/ *Location*

Neu/ *New*: ☐ Trading Location ☐ Back Office Location

Bisher/ *Existing*: ☐ Trading Location ☐ Back Office Location

☐ Disaster Recovery

☐ Proximity Service (nur möglich für die Lokationen / *only for locations*: Hanauer Landstr. 324-326, Friesstr. 26 und Kruppstr. 121-127)

Anmerkung: Bandbreiten von 10 Mbit/s oder höher, werden generell auf Leitungen mit einem 100 Base-TX (RJ45) Leitungsabschluss bereitgestellt. Sollte ein Glasfaserabschluss geliefert werden, so wird die Deutsche Börse das passende Schnittstellen-Modul spezifizieren.
Note: Bandwidths of 10 Mbit/s or higher, are generally provided on lines with a 100 Base-TX (RJ45) interface. In case a fiber connection is delivered Deutsche Börse will specify the appropriate interface module.

Bitte mit Hardware-Voraussetzungen abgleichen! / *Please double-check with hardware prerequisites!*

Standort des Leitungsabschlusses / *Point of line termination*

Name der Firma / *Name of Company*

Straße / *Street*

Land, Postleitzahl und Ort / *Country, Postal Code and Town*

Gebäudeteil *part of building* | Etage *floor* | Raum-Nr. *room no.* | Rack-Nr. *rack No.* | Provider oder Kundenkabinett *carrier or customer cabinet*

Leitungsinstallation außerhalb der Geschäftszeiten/
Line installation out of business hours

☐ Ja / *Yes* ☐ Nein / *No*

☐ Router und Leitungsabschluss befinden sich im selben Raum
Router and point of line termination are located in the same room

☐ Router und Leitungsabschluss befinden sich in unterschiedlichen Räumen
Router and point of line termination are located in different rooms

☐ Tischgerät / *Desktop Device*

☐ Einschubtechnik / *Rack-mountable*

Lokation der Hauseinführung (Bezeichnung durch den lokalen Netzwerk-Provider)
Location of Building Entry (Description by the Local Network Provider)

Beschreibung der Hauseinführung / *Description of Building Entry*

Technischer Ansprechpartner vor Ort/ *Technical Contact Person at location*

Vorname und Name / *First Name and Name*

Telefon / *Phone* Fax

E-Mail

Vertreter: Vorname und Name / *Representative: First Name and Name*

Telefon / *Phone* *Fax*

E-Mail

Zur näheren Beschreibung der Hardwarekonfiguration, Internet Router etc. verwenden Sie bitte den System Configurator Questionnaire.
To describe briefly the hardware configuration, Internet Router, etc. please use the System Configurator Questionnaire.

Falls nicht identisch mit der 1. Anbindung / *If not identical with the 1st connection:*
Standort des Leitungsabschlusses / *Point of line termination*

Name der Firma / *Name of Company*

Straße / *Street*

Land, Postleitzahl und Ort / *Country, Postal Code and Town*

Gebäudeteil *part of building* | Etage *floor* | Raum-Nr. *room no.* | Rack-Nr. *rack No.* | Provider oder Kundenkabinett *carrier or customer cabinet*

Leitungsinstallation außerhalb der Geschäftszeiten/
Line installation out of business hours

☐ Ja / *Yes* ☐ Nein / *No*

☐ Router und Leitungsabschluss befinden sich im selben Raum
Router and point of line termination are located in the same room

☐ Router und Leitungsabschluss befinden sich in unterschiedlichen Räumen
Router and point of line termination are located in different rooms

☐ Tischgerät / *Desktop Device*

☐ Einschubtechnik / *Rack-mountable*

Lokation der Hauseinführung (Bezeichnung durch den lokalen Netzwerk-Provider)
Location of Building Entry (Description by the Local Network Provider)
Beschreibung der Hauseinführung / *Description of Building Entry*

Falls nicht identisch: Technischer Ansprechpartner vor Ort / *if not identical: Technical Contact Person at location*

Vorname und Name / *First Name and Name*		Vertreter: Vorname und Name / *Representative: First name und Name*	
Telefon / *Phone*	Fax	Telefon / *Phone*	Fax
E-Mail		E-Mail	

Zur näheren Beschreibung der Hardwarekonfiguration, Internet Router etc. verwenden Sie bitte den System Configuration Questionnaire.
To describe briefly the hardware configuration, Internet Router, etc. please use the System Configuration Questionnaire.

Mit Unterzeichnung dieses Zugangsformulars verpflichtet sich der Antragsteller, sämtliche Kosten für die Installation und Bereitstellung der Anbindungen zu tragen, sofern

- der Antrag auf Zulassung als Börsenteilnehmer bzw. die Registrierung als Abwicklungsdienstleister oder Multi Member Provider an der Frankfurter Wertpapierbörse (FWB) für die Handelstätigkeit im elektronischen Handelssystem Xetra vom Antragsteller zurückgezogen wird;
- die Bestellung von Anbindungen vom Auftraggeber zurückgezogen wird;
- die Anbindungen trotz Bereitstellung nicht innerhalb von 1 Monat nach Installation in Betrieb genommen werden.

Die Kosten werden ab dem der Bereitstellung der Anbindung durch die Deutsche Börse AG folgenden Monat fällig. Die Anbindungskosten sind dem jeweils gültigen Preisverzeichnis für die Nutzung der Handels-EDV der Frankfurter Wertpapierbörse (Abschnitt A - Preisverzeichnis Xetra) zu entnehmen. Preise verstehen sich zzgl. gesetzlicher Mehrwertsteuer.
Bei Kündigung der Zulassung bzw. Anbindung werden die Kosten bis einschließlich des Kündigungsmonats erhoben.

With the signing of this access order form all costs for the installation and supply of the connections have to be carried by the applicant if

- *the application for admission as exchange participant or the registration as Settlement Institution or Multi Member Provider at the Frankfurt Stock Exchange (FWB) for the trading activity of the electronic trading system Xetra is cancelled by the applicant;*
- *the connection order is cancelled by the applicant;*
- *the connections provided are not put into operation within 1 month by the applicant.*

Fees will become due as of the following month after the connection was provided by Deutsche Börse AG. For the respective costs, please see the Price List of Price List for the Utilization of the Trading System of FWB Frankfurt Stock Exchange (Part A - Xetra Price List). Fees are exclusive the statutory VAT.
Upon cancellation of a company's admission or a connection, fees will be charged up to and including the month of cancellation.

Für die Bestellung der Enhanced Broadcast Solution müssen unterschriebene Kopien des Kursvermarktungsvertrages der Deutsche Börse AG und des Xetra Enhanced Broadcast Solution-Anbindungsvertrages vorliegen. Die Dokumente müssen der Deutschen Börse AG im Original an die im Vertrag angegebene Adresse zugesandt werden.

For processing of Enhanced Broadcast Solution orders, signed copies of both the Deutsche Börse AG Market Data Dissemination Agreement and Xetra Enhanced Broadcast Solution Connection Agreement must be enclosed. The orignal documents must be submitted by post to Deutsche Börse AG under the address stated in the agreement.

Ort, Datum / *Place, Date*

Firmenstempel, Unterschrift des Auftraggebers, Name in Druckbuchstaben
Company Stamp, Signature of Applicant, Name in Capitals