X-pand into the Future

e u r e x *information*

Date: Frankfurt, 23 May, 2002
Recipients: All Eurex Clearing members and vendors
Authorized by: Peter Reitz

Central Counterparty – CCP Circulars 13/02 and 14/02

Contact: Functional Member Readiness: Tel. +49 69-2101-1700

Content may be most important for:	**Attachments:**
➲ Central Counterparty Coordinators	**CCP Circular 13/02 (English/Deutsch)** Attachment 1. CCP Business and Reporting Scenarios (German only) **CCP Circular 14/02 (English/Deutsch)** Attachments 1. CCP Connection Alternatives and Sizing Indication 2. CCP Communication Costs 3. Systems Configuration Questionnaire 4. CCP Access Order Form

Please find attached a copy of Central Counterparty Circulars 13/02 and 14/02 sent to Frankfurter Wertpapier Börse members and vendors recently.

The attachment to Circular 13/02 is the German language version of the document distributed with CCP Circular 12/02, describing CCP business transactions and the corresponding reports.

CCP Circular 14/02 deals with the technical aspects of the connection to the CCP. Its attachments include details of the alternative connection types, their costs, a system configuration questionnaire and an order form for members to select and order the connection type required.

The questionnaire and the order form should be completed and returned by **3 June, 2002**.

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CCP Circular 13/02

Deutsche Börse

To the FWB Members, Xetra® Members and Vendors

Recipients: Project Coordinators

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Central Counterparty – CCP April 24, 2002
German Version of the Document 'Business and Reporting Scenarios'

Dear Sir or Madam,

As announced in circular 12/02, we are sending you today the document 'Funktionale Szenarien', the German version of the CCP-related document 'Business and Reporting Scenarios'. This document describes in detail the possible business transactions that will occur under CCP conditions and how they will be reflected in the corresponding reports.

We would ask you to forward this document to all relevant departments within your institution.

For any questions you may have, please do not hesitate to contact the CCP Change Management Team under

telephone: +49(0)69-21 01-16 40
fax: +49(0)69-21 01-16 41.

Yours faithfully
On behalf of the Management

Jens Hachmeister Christian Ochsner

Enclosure

General Managers:

Edward Backes
Dr. Heiko Beck
Rudolf Ferscha
Frank Gerstenschläger
Volker Potthoff

CCP Circular 14/02

Deutsche Börse

To the FWB Members, Xetra® Members and Vendors

Recipients: Project Coordinators, System Administrators and Back-Office

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Central Counterparty – CCP
Technical Connection

May 17, 2002

Dear Sir or Madam,

Attached to this circular, we are sending you further information and application forms for the technical connection to the CCP system. The following documents are enclosed:

- **„CCP Connection Alternatives and Preliminary Sizing Indication“**

  As indicated in previously released documents, those members, who perform settlement activities, must have a connection to the CCP system of Eurex Clearing AG. The attached document describes in detail the various alternatives for establishing a connection to the CCP system. In addition, the document contains the necessary system requirements for Members.

- **CCP Communications Costs**

  This document lists the prices for a connection to the CCP (not relevant for trading members who do not perform clearing or settlement). The line prices will be invoiced as of the simulation start.

General Managers:
Edward Backes
Dr. Heiko Beck
Rudolf Ferscha
Frank Gerstenschläger
Volker Potthoff

- **“Systems Configuration Questionnaire“**

  In the „Systems Configuration Questionnaire“, the Members are requested to outline the hardware equipment and software installation they intend to use. This information is necessary in order to ensure a sound technical connection from the simulation start. Also, submission of this information is a prerequisite for being connected to the CCP system (not relevant for trading members who do not perform clearing or settlement).

- **CCP Access Order Form**

  For connecting to the CCP system, various connection alternatives are available (according to the individually required performance level). Early line application is necessary so that Deutsche Börse AG will be able to take necessary infrastructure measures well in advance of the simulation start, and thus guarantee optimum support during the introduction of the CCP.

  Please use the enclosed CCP access order form to apply for the connection alternative you have selected (not relevant for trading members who do not perform clearing or settlement).

Please forward the documents to the technical CCP contact within your institution.

We would ask you to fill out and return the „Systems Configuration Questionnaire“ and the CCP access order form **before June 3, 2002**.

For any questions you may have, please do not hesitate to contact the CCP Change Management Team under

telephone: +49(0)69-21 01-16 40
fax: +49(0)69-21 01-16 41.

Yours faithfully
On behalf of the Management

Jens Hachmeister Christian Ochsner

Enclosure

Central Counterparty for Equities (CCP)

CCP Connection Alternatives and Preliminary Sizing Indication

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1 Introduction

The present document contains information regarding the necessary member connections depending on the selected trading, clearing and settlement functions. Furthermore an indication on recommended sizing for the CCP related member infrastructure is given.

Chapter two describes the mandatory and optional information delivered from the various systems of Deutsche Börse AG / Eurex Clearing AG according to the participants future functions.

This leads to a modification of the member connection to Deutsche Börse AG / Eurex Clearing AG depending on the already existing connections of the specific member.

Chapter three gives an overview about the network connections and information on operating systems. Eurex Clearing AG offers leased lines or Internet access (iAccess) based connection components with a possible bandwidth of 64 kBit/s and 128 kBit/s each. Members can combine these components depending on their specific needs.

Chapter four gives an indication for the sizing of CCP MISS installations when using the Browser Based User Interface.

2 Functional Connection Requirements

2.1 Member Functions

The document "Clearing and Settlement Structure", published February 28, 2002, describes the participant structure on the cash market and its functions that will be available in the future. Participants will be able to choose whether to take on one or several of the illustrated functions.

The target model will consist of the following participant-structure:

- Trading Member (TM)
  Trading members are financial institutions, financial services institutions and banking organizations, which trade in CCP relevant instruments on the trading platforms Xetra and/or on the FWB Floor. They are entitled to execute proprietary trades and agent trades.
- Clearing Member (CM)
  A clearing member is entitled to perform the clearing of securities transactions. In addition, CMs are liable for the timely fulfillment of all payment and delivery obligations stemming from securities transactions.
- Settlement Institution (SI)
  Settlement institutions perform securities settlement via accounts at CBF. They are responsible for settlement between Eurex Clearing AG and the clearing member. However, the responsibility towards Eurex Clearing AG to fulfill trades by means of orderly settlement remains with the clearing member.

The following table shows all functions and available combination possibilities that participants may assume.

	Trading *	Clearing	Settlement	Eurex Terminology
1	x			Trading member (TM)
2	x	x		CM is no SI, but is still liable for settlement
3	x	x	x	CM is also a settlement institution (SI)
4	x		x	TM is also a settlement institution (SI)
5		x		CM is no SI, but is still liable for settlement
6		x	x	CM is also settlement institution (SI)
7			x	Settlement institution (SI)

TM – Trading Member, CM – Clearing Member, SI – Settlement Institution

* Trading members can trade CCP instruments on Xetra, on XONTRO or on both trading platforms.

2.2 Information Groups

Depending on the future function or combination of selected functions the set of mandatory and optional information delivered from the various systems of Deutsche Börse AG / Eurex Clearing AG differs. There are the following major groups of information.

- Risk Management
- Delivery end-of-day
- Settled Delivery (intra-day)
- Corporate Actions
- Cash
- Collateral Management
- XONTRO Contract Notes
- Xetra Trade Confirmations
- Gross Delivery Management

The following table describes the information groups with regard to:

Type: dialog (D) or file based report (R)

Recipient: trading member, clearing member and settlement institution, either mandatory (m), optional (o) or n.a.

Network Access Path: Xetra, Eurex, CCP or SNA

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing	Settlement	Access Path
Risk Management	R	o *	m	n.a.	CCP
Delivery end-of-day	R	o *	m	m	CCP
Settled Delivery (intra-day)	R	o *	m	m	SNA or CCP
Corporate Actions	R	o *	m	m	CCP
Cash	R	n.a.	m	m	CCP
Collateral Management	D/R	n.a.	m	n.a.	Eurex
XONTRO Contract Notes	R	n.a.	m	m	SNA
Xetra Trade Confirmations	D	m	m	m	Xetra
Gross Delivery Management	D	n.a.	o (read only)	m	CCP

* The trading member may receive the reports if his clearing member permits this.

2.3 Network Requirements

Based on the mandatory and optional information groups the network requirements for each participant structure can be concluded as follows:

	Trading	Clearing	Settlement	Required Additional Network Access
1	x			optional CCP Network for CCP MISS
2	x	x		CCP Network for CCP MISS (a)
3	x	x	x	CCP Network for CCP MISS (a)
4	x		x	CCP Network for CCP MISS
5		x		CCP Network for CCP MISS (b) and SNA access if XONTRO trade clearing member
6		x	x	CCP Network for CCP MISS (b)
7			x	CCP Network for CCP MISS (c)

(a) In case of a clearing member with an equity clearing license only, the restricted Eurex access (collateral management) can be acomplished by sharing the CCP network line.

(b) In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions. i.e., no Eurex trading is possible.

If the participant clears Xetra trades and if he is no Xetra trading member the participant requires an Xetra access restricted to reception of trade confirmations that can also share the CCP network line.

(c) If the participant settles Xetra trades the participant requires an Xetra access restricted to reception of trade confirmations that can also share the CCP network line.

Generally, members applying for an equity clearing license or opting for the function of a settlement institute need a CCP connection.

There are options for participants with low traffic volume requirements regarding the CCP to share an existing Xetra or Eurex network line with the CCP access. Adverse affects on performance might occur for these connection alternatives. The related risks have to be taken by the participants.

More detailed descriptions on the outlines connection alternatives can be found in the following sections dedicated to each listed combination of functions.

2.4 Connection Requirements for Each Participant Function

The following sections outline the connection requirements for the various possible combinations possibilities of functions in detail. Combinations including trading member functions are further separated into three combinations for Xetra trading member, XONTRO trading member and both together.

To ease the search for the suitable connection requirements the reader should focus on the description of his individual combination of functions.

Participants that additionally provide clearing or settlement services for other participants have to consider these functions separately and have to combine the resulting connection requirements with their original requirements.

2.4.1 Trading Member

2.4.1.1 Xetra Trading Member

The Xetra Trading member uses the existing Xetra network unchanged.[1]

Additional network connections are required if the trading member requests one or several optional reports as listed in the table and if his clearing member permits this.

There is one option available for the report dissemination and the transfer of other information:

> The reports are transmitted using a new dedicated CCP network.
> If an SNA connection exists for the member the SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted via that SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading			Access Path
Risk Management	R	o *			CCP
Delivery end-of-day	R	o *			CCP
Settled Delivery (intra-day)	R	o *			SNA or CCP
Corporate Actions	R	o *			CCP
Xetra Trade Confirmations	D	m			Xetra

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

[1] The option to receive Xetra Contract Notes ("Schlussnoten") via the SNA network remains unchanged.

2.4.1.2 XONTRO Trading Member

The XONTRO Trading member uses the existing SNA network unchanged.

Additional network connections are required if the trading member requests one or several optional reports as listed in the table and if his clearing member permits this.

There is one option available for the dissemination and the transfer of other information:

> All reports are transmitted using a new dedicated CCP network.
> The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading			Access Path
Risk Management	R	o *			CCP
Delivery end-of-day	R	o *			CCP
Settled Delivery (intra-day)	R	o *			SNA or CCP
Corporate Actions	R	o *			CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

2.4.1.3 Xetra and XONTRO Trading Member

The Trading member uses the existing Xetra and SNA network unchanged.

Additional network connections are required if the trading member requests one or several optional reports as listed in the table and if his clearing member permits this.

There is one option available for the dissemination and the transfer of other information:

> All reports are transmitted using a new dedicated CCP network.
> The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading			Access Path
Risk Management	R	o *			CCP
Delivery end-of-day	R	o *			CCP
Settled Delivery (intra-day)	R	o *			SNA or CCP
Corporate Actions	R	o *			CCP
Xetra Trade Confirmations	D	m			Xetra

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

2.4.2 Trading Member and Clearing Member

2.4.2.1 Xetra Trading Member and Clearing Member

The Xetra Trading member uses the existing Xetra network unchanged.[2]

Additional network connections are required for the collateral management (for a new clearing member), the optional Gross Delivery Management read only access and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   If an SNA connection exists for the member the SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted via that SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing		Access Path
Risk Management	R	o	m		CCP
Delivery end-of-day	R	o	m		CCP
Settled Delivery (intra-day)	R	o	m		SNA or CCP
Corporate Actions	R	o	m		CCP
Cash	R	n.a.	m		CCP
Collateral Management	D/R	n.a.	m		Eurex
Xetra Trade Confirmations	D	m	m		Xetra
Gross Delivery Management	D	n.a.	o (read only)		CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

[2] The option to receive Xetra Contract Notes ("Schlussnoten") via the SNA network remains unchanged.

2.4.2.2 XONTRO Trading Member and Clearing Member

The participant uses the existing SNA network unchanged.

Additional network connections are required for the collateral management (for a new clearing member), the optional Gross Delivery Management read only access and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing		Access Path
Risk Management	R	o	m		CCP
Delivery end-of-day	R	o	m		CCP
Settled Delivery (intra-day)	R	o	m		SNA or CCP
Corporate Actions	R	o	m		CCP
Cash	R	n.a.	m		CCP
Collateral Management	D/R	n.a.	m		Eurex
XONTRO Contract Notes	R	n.a.	m		SNA
Gross Delivery Management	D	n.a.	o (read only)		CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.2.3 Xetra and XONTRO Trading Member and Clearing Member

The participant uses the existing Xetra and SNA network unchanged.

Additional network connections are required for the collateral management (for a new clearing member), the optional Gross Delivery Management read only access and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing	Settlement	Access Path
Risk Management	R	o	m		CCP
Delivery end-of-day	R	o	m		CCP
Settled Delivery (intra-day)	R	o	m		SNA or CCP
Corporate Actions	R	o	m		CCP
Cash	R	n.a.	m		CCP
Collateral Management	D/R	n.a.	m		Eurex
XONTRO Contract Notes	R	n.a.	m		SNA
Xetra Trade Confirmations	D	m	m		Xetra
Gross Delivery Management	D	n.a.	o (read only)		CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.3 Trading Member, Clearing Member and Settlement Institution

2.4.3.1 Xetra Trading Member, Clearing Member and Settlement Institution

The Xetra Trading member uses the existing Xetra network unchanged.[3] It is assumed that the participant uses already a SNA connection due to his settlement functions and the resulting requirement to settle non-CCP trades.

Additional network connections are required for the collateral management (for a new clearing member), the Gross Delivery Management and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing	Settlement	Access Path
Risk Management	R	o	m	n.a.	CCP
Delivery end-of-day	R	o	m	m	CCP
Settled Delivery (intra-day)	R	o	m	m	SNA or CCP
Corporate Actions	R	o	m	m	CCP
Cash	R	n.a.	m	m	CCP
Collateral Management	D/R	n.a.	m	n.a.	Eurex
Xetra Trade Confirmations	D	m	m	m	Xetra
Gross Delivery Management	D	n.a.	o	m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

[3] The option to receive Xetra Contract Notes ("Schlussnoten") via the SNA network remains unchanged.

2.4.3.2 XONTRO Trading Member, Clearing Member and Settlement Institution

The participant uses the existing SNA network unchanged.

Additional network connections are required for the collateral management (for a new clearing member), the Gross Delivery Management and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing	Settlement	Access Path
Risk Management	R	o	m	n.a.	CCP
Delivery end-of-day	R	o	m	m	CCP
Settled Delivery (intra-day)	R	o	m	m	SNA or CCP
Corporate Actions	R	o	m	m	CCP
Cash	R	n.a.	m	m	CCP
Collateral Management	D/R	n.a.	m	n.a.	Eurex
XONTRO Contract Notes	R	n.a.	m	m	SNA
Gross Delivery Management	D	n.a.	o	m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.3.3 Xetra and XONTRO Trading Member, Clearing Member and Settlement Institution

The participant uses the existing Xetra and SNA network unchanged.

Additional network connections are required for the collateral management (for a new clearing member), the Gross Delivery Management and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information transfer:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading	Clearing	Settlement	Access Path
Risk Management	R	o	m	n.a.	CCP
Delivery end-of-day	R	o	m	m	CCP
Settled Delivery (intra-day)	R	o	m	m	SNA or CCP
Corporate Actions	R	o	m	m	CCP
Cash	R	n.a.	m	m	CCP
Collateral Management	D/R	n.a.	m	n.a.	Eurex
XONTRO Contract Notes	R	n.a.	m	m	SNA
Xetra Trade Confirmations	D	m	m	m	Xetra
Gross Delivery Management	D	n.a.	o	m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.4 Trading Member and Settlement Institution

2.4.4.1 Xetra Trading Member and Settlement Institution

The Xetra Trading member uses the existing Xetra network unchanged.[4] It is assumed that the participant uses already a SNA connection due to his settlement functions and the resulting requirement to settle non-CCP trades.

Additional network connections are required for the Gross Delivery Management and for the reports as listed in the table.

One requirement has to be met for the dissemination and other information transfer:

> All reports are transmitted using a new dedicated CCP network.
> The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading		Settlement	Access Path
Risk Management	R	o *		n.a.	CCP
Delivery end-of-day	R	o *		m	CCP
Settled Delivery (intra-day)	R	o *		m	SNA or CCP
Corporate Actions	R	o *		m	CCP
Xetra Trade Confirmations	D	m		m	Xetra
Gross Delivery Management	D	n.a.		m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

[4] The option to receive Xetra Contract Notes ("Schlussnoten") via the SNA network remains unchanged.

2.4.4.2 XONTRO Trading Member and Settlement Institution

The participant uses the existing SNA network unchanged.

Additional network connections are required for the Gross Delivery Management and for the reports as listed in the table.

One requirement has to be met for the dissemination and other information transfer:

> All reports are transmitted using a new dedicated CCP network.
> The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading		Settlement	Access Path
Risk Management	R	o *		n.a.	CCP
Delivery end-of-day	R	o *		m	CCP
Settled Delivery (intra-day)	R	o *		m	SNA or CCP
Corporate Actions	R	o *		m	CCP
Cash	R	n.a.		m	CCP
XONTRO Contract Notes	R	n.a.		m	SNA
Gross Delivery Management	D	n.a.		m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

2.4.4.3 Xetra and XONTRO Trading Member and Settlement Institution

The participant uses the existing Xetra and SNA network unchanged.

Additional network connections are required for the Gross Delivery Management and for the reports as listed in the table.

One requirement has to be met for the dissemination and other information transfer:

> All reports are transmitted using a new dedicated CCP network.
> The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D	Trading		Settlement	Access Path
Risk Management	R	o *		n.a.	CCP
Delivery end-of-day	R	o *		m	CCP
Settled Delivery (intra-day)	R	o *		m	SNA or CCP
Corporate Actions	R	o *		m	CCP
Cash	R	n.a.		m	CCP
XONTRO Contract Notes	R	n.a.		m	SNA
Xetra Trade Confirmations	D	m		m	Xetra
Gross Delivery Management	D	n.a.		m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable
* The trading member may receive the reports if his clearing member permits this.

2.4.5 Clearing Member

Additional network connections are required for the collateral management (for a new clearing member), the optional Gross Delivery Management read only access and for the reports as listed in the table.

Four requirements/options are available for the dissemination and other information exchange:

1. All reports are transmitted using a new dedicated CCP network.
   If an SNA connection exists for the member the SWIFT based intra-day reports i.e., "Pending Delivery" may be transmitted via that SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.
3. If the participant clears Xetra trades the participant requires Xetra access restricted to the reception of trade confirmations that can also share the CCP network line.
4. If the participant clears XONTRO trades, he requires an SNA network access for the reception of Contract Notes.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D		Clearing		Access Path
Risk Management	R		m		CCP
Delivery end-of-day	R		m		CCP
Settled Delivery (intra-day)	R		m		SNA or CCP
Corporate Actions	R		m		CCP
Cash	R		m		CCP
Collateral Management	D/R		m		Eurex
XONTRO Contract Notes	R		m		SNA
Xetra Trade Confirmations	D		m		Xetra
Gross Delivery Management	D		o (read only)		CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.6 Clearing Member and Settlement Institution

It is assumed that the participant already uses an SNA connection due to his settlement functions and the resulting requirement to settle non-CCP trades.

Additional network connections are required for the collateral management (for a new clearing member), the Gross Delivery Management and for the reports as listed in the table.

Three requirements/options are available for the dissemination and other information exchange:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. In case of a clearing member with an equity clearing license only, the participant requires an additional Eurex network access. This can be accomplished by ordering a Eurex access that shares the CCP network lines. The Eurex access is restricted to the equity clearing functions, i.e., no Eurex trading is possible.
3. If the participant clears Xetra trades the participant requires Xetra access restricted to the reception of trade confirmations that can also share the CCP network line.

The table summarizes the connections:

Information Group	Type		Recipient		Network
	R/D		Clearing	Settlement	Access Path
Risk Management	R		m	n.a.	CCP
Delivery end-of-day	R		m	m	CCP
Settled Delivery (intra-day)	R		m	m	SNA or CCP
Corporate Actions	R		m	m	CCP
Cash	R		m	m	CCP
Collateral Management	D/R		m	n.a.	Eurex
XONTRO Contract Notes	R		m	m	SNA
Xetra Trade Confirmations	D		m	m	Xetra
Gross Delivery Management	D		o	m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

2.4.7 Settlement Institution

It is assumed that the participant already uses an SNA connection due to his settlement functions and the resulting requirement to settle non-CCP trades.

The existing SNA connection is used to receive XONTRO Contract Notes.

Additional network connections are required for the Gross Delivery Management and for the reports as listed in the table.

Two requirements/options are available for the dissemination and other information exchange:

1. All reports are transmitted using a new dedicated CCP network.
   The SWIFT based intra-day reports i.e., "Settled Delivery" may be transmitted using an existing SNA connection.
2. If the participant settles Xetra trades the participant requires Xetra access restricted to the reception of trade confirmations that can also share the CCP network line.

The table summarizes the connections:

Information Group	Type	Recipient			Network
	R/D			Settlement	Access Path
Delivery end-of-day	R			m	CCP
Settled Delivery (intra-day)	R			m	SNA or CCP
Corporate Actions	R			m	CCP
Cash	R			m	CCP
XONTRO Contract Notes	R			m	SNA
Xetra Trade Confirmations	D			m	Xetra
Gross Delivery Management	D			m	CCP

D = dialog
R = file based report
m = mandatory
o = optional
n.a. = not applicable

3 CCP Network Connections

3.1 Overview

The CCP Online Management Front End provides the whole functionality offered by the CCP system through a client/server based architecture. CCP is a client-/server system consisting of a CCP back end and a member installation. Some of the functionality is decentralized on the CCP members installations (also called in short form CCP front end) and other parts are centralized on the CCP back end. Communication is realized via a dedicated CCP network, the already existing Xetra or Eurex networks.

CCP provides a user interface using web browser technology (HTTP client) as well as a programmable interface.

The programmable interface to the CCP Online Management System is based on the VALUES API (**V**irtual **A**ccess **L**ink **U**sing **E**xchange **S**ervices).

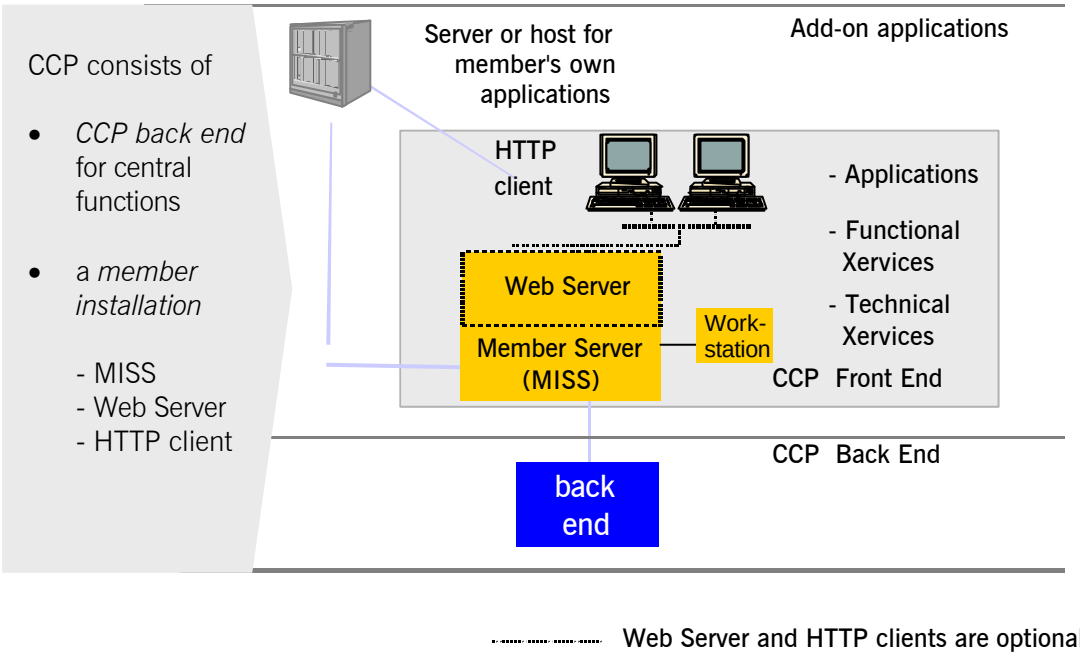


Figure 3-1: CCP architecture (back end and front end)

A members[5] installation consists of one or more member servers (MISS= **M**ember **I**ntegration **S**ystem **S**erver), which can be configured to provide a failover capability in case of a failure of a single MISS. The MISS acts as a server to connect Workstation computers or HTTP clients running the browser based user interface.

The member's front architecture mainly consists of two components: GATE (**G**eneric **A**ccess **T**o **E**xchange) and CCP BESS (**B**ack **E**nd **S**ub **S**ystem).

[5] If not mentioned explicitly a member shall be a trading member or a clearing member or settlement institution

GATE serves as common architecture component and provides access to the Technical Xervices[6]. The CCP BESS components provide the CCP Functional Xervice. This architecture concept allows an integration of different electronic Deutsche Börse platforms via the programmable VALUES interface on one MISS infrastructure, e.g. CCP, Eurex, Xetra Vienna, Xetra Frankfurt, information providers and other services in the future. See also Figure 3-2.

Additionally, the programmable interface can be provided on an architectural CCP client of the member server. This client is called workstation and is optional. The workstation gives the member the option to distribute own third party applications within its member inhouse LAN.

A member installation can be built up in different ways to meet different levels of availability. Eurex Clearing AG recommends to install two MISSes within one LAN in order to build up a MISS group. The MISSes within a MISS group provide a backup for each other. A member installation consisting of two MISSes within one LAN, both are registered as one MISS group, is called a “high availability” configuration.[7]

In contrary to the high availability configuration, a minimum configuration would be built up by one instead of two MISSes. This type of configuration provides a low cost and a low availability member installation. It is possible to get connection to CCP with a stand-alone MISS as single-user system.

Member configurations can be scaled according to their needs as changes can be requested in advance (e.g. additional MISS) to be registered within the CCP. If a member wants to start with a connection via a minimum configuration, the member can upgrade this configuration in the future. The necessary Change Management is done by Customer Technical Support of Deutsche Börse Systems.

The connection of a member installation is possible using different network paths:

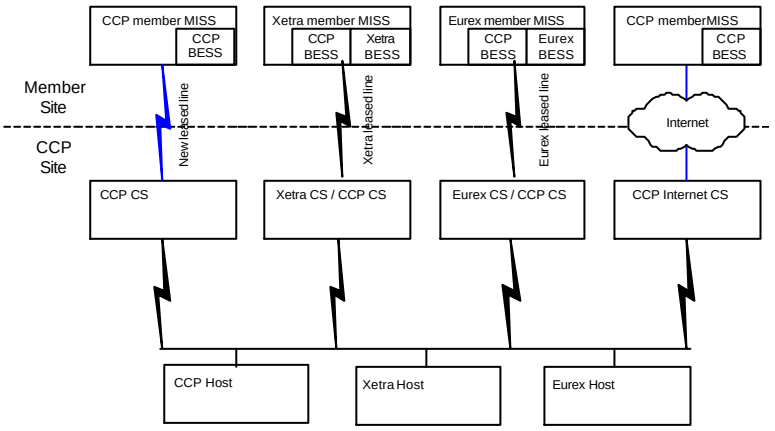


Figure 3-2: Connection to CCP: via CCP, Xetra or Eurex MISS or Internet

Note: If the CCP MISS is combined with a trading platform MISS to a multi market MISS an upgrade for the network line bandwidth may be necessary.

[6] Xervice (eXchange Services) are modules, which provide common excecution and operation services to front end Exchange applications, e.g. CCP, Eurex, or Xetra.

[7] Eurex Clearing AG highly recommends to implement a "high availability" configuration for all clearing members and settlement instituions.

The base connection for a member is to have one or two member servers (MISS) being connected to the Xetra, Eurex or CCP network.

It is possible to have a dedicated CCP MISS or an existing Xetra and/or Eurex MISS to be used for connection to the CCP. The connection is realized generally through two network paths. A path can be either a leased line or an Internet connection.

If a member does not need Eurex trading access a Eurex MISS can be installed on the CCP MISS and the CCP network lines can be reused. The same applies for a Xetra MISS if a non trading Xetra access is reqired.

3.2 Web Browser Based User Interface

The user interface provided by Deutsche Börse is browser based and runs on a HTTP client supporting Microsoft Internet Explorer 5.5 and Netscape 4.7. The browser connects via a webserver to the Tomcat servlet container. Both, the webserver and the servlet container are running on the MISS computer.

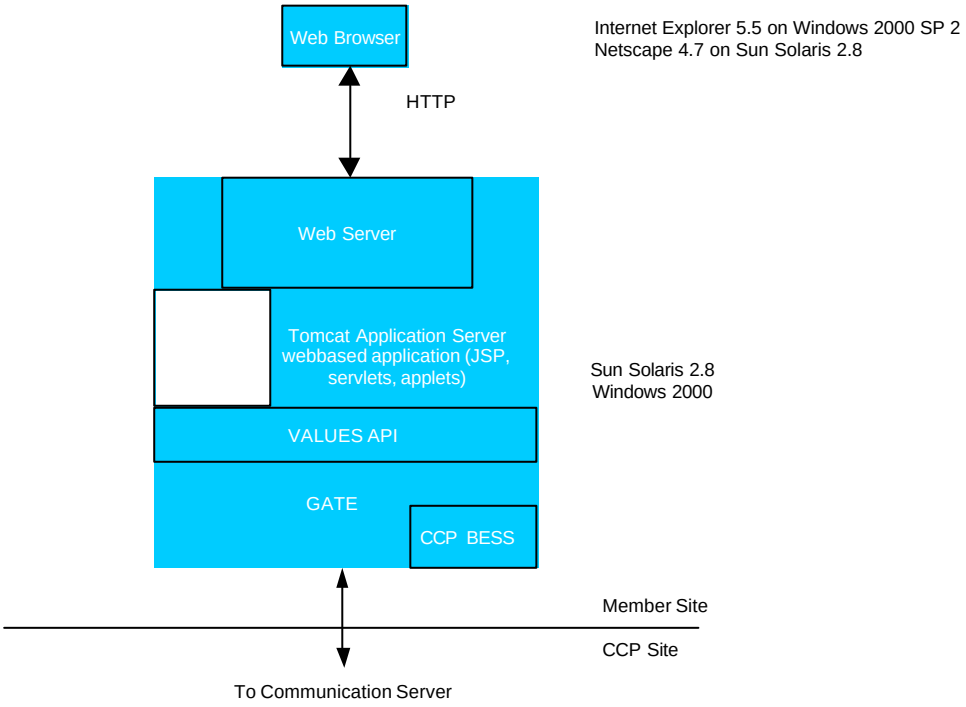


Figure 3-3: CCP MISS based Browser Front End - Architecture

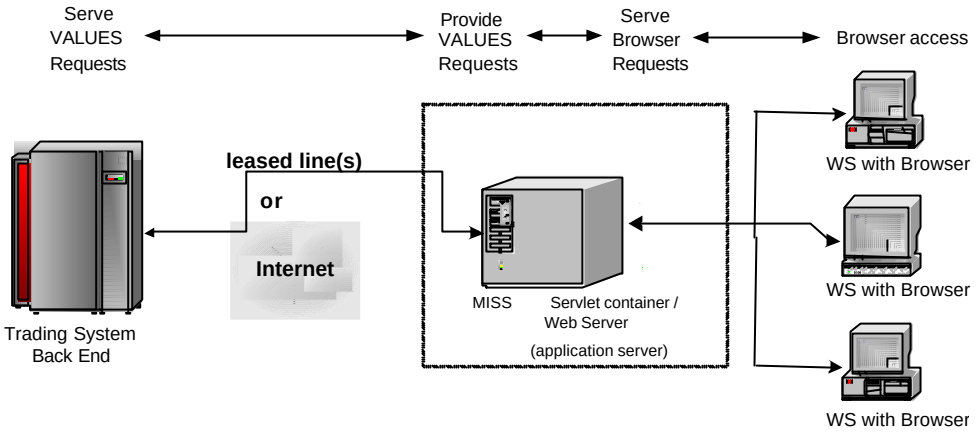


Figure 3-4: CCP MISS based Browser Front End - Connection

The Web Server and Tomcat servlet container will be provided as part of the CCP software and cannot be replaced by analogous software.

3.3 CCP Connection

The connection of the members infrastructure to the CCP system is realized via a network. Due to this uncoupling of member infrastructure and Deutsche Börse System AG infrastructure for CCP (CCP back end), modifications can be made on CCP back end while minimizing the effects on the front end to a large extent and vice versa.

For connection to the CCP system, Eurex offers fixed line and Internet-based connections, each with 64Kb or 128Kb bandwidth. Members can combine these components to meet their individual requirements.

The following connection components are available:

- Single 128Kb leased line
- Single 64Kb leased line
- 128Kb Internet connection
- 64Kb Internet connection

The connection alternatives Premium 1, Combined/Premium 2, and iAccess described in the CCP Preliminary Technical Release Notes can be configured by using a combination of these components. Due to the current low level of interest, the BrowserAccess and iBrowserAccess alternatives will not be offered at this time. Members that are interested in these alternatives may contact the CCP Change Management Team.

For connection with one leased line, a further back-up connection is required in all cases. The back-up connection must have the same bandwidth as the principal line.

For Internet connections the member itself must arrange for Internet access from a service provider of its own choice.

Connection to the CCP system via Multi-member MISS installations, or the use of existing Eurex or Xetra network infrastructure is not foreseen.

3.4 Operating System Platforms

The CCP MISS and Workstation Software support the following platforms:

- Microsoft Windows 2000 Professional Version (Intel) English Service Pack 2
- Microsoft Windows XP Professional Version (Intel) English (Workstation only)
- Sun Solaris 8

Note: The following Table shows the supported combinations of MISSes and Workstations:

	Solaris Workstation	**Windows 2000 Workstation**	**Windows XP Workstation**
Solaris MISS	Supported	supported	supported
Windows 2000 MISS	not supported, but possible	supported	supported

Note: Windows XP MISSes are not supported.

Note: The number of computers accessing and using services of Windows 2000 Professional is limited from a license perspective on the Microsoft Windows platform. In case that a specific installation exceeds the license regulation, Microsoft Windows 2000 Server (Intel) English Service Pack 2 must be installed instead.

4 Sizing Indication

This chapter gives an indication for the sizing of CCP MISS installations when using the Browser Based User Interface based on Tomcat Servlet Container. It does not provide sizing information for MISS or Workstation installations using 3rd party applications.

The MISS is designed to run several services (i.e., Eurex, Xetra and CCP) in parallel. For installations running combinations of services on a single system the total sizing can be determined by adding the sizing requirement for each individual service. It should be considered that in installations with only one MISS running several services, all services would be unavailable after the failure of the MISS when no failover is provided.

The following sizing guidelines cover only the CCP MISS software recommendations. They do not include requirements caused by the operating system, layered products (e.g. NFS or NIS) or other application software.

All CPU sizing figures are given as SPECInt2000 values.

Note: The SPEC organization has collected all official measured SPECint2000 values. SPEC provide these values on the website http://www.spec.org for free access.

4.1 Assumptions

The guidelines are based on the following assumption:

- The sizing indication is only valid for MISS installations with Tomcat Servlet Engine serving Browser Based HTTP Clients.
- The sizing indication does not cover MISS or Workstation installations with 3rd party software.
- For the sizing of the HTTP Clients please refer to the specification of the used browser.

4.2 Sizing Drivers

The CCP Front-end sizing requirements are driven by the number of parallel served users and the level of activity to be supported. The front-end essential activities are mainly the processing of requests and responses triggered by the users.

4.3 Sizing Indication CCP MISS

The following figures are valid for installations serving up to 30 HTTP Clients in parallel. For higher requirements, scaling can be achieved by using multiprocessor systems and adding more physical memory.

4.4 CPU

As a minimum configuration for a CCP MISS serving 30 HTTP Clients a CPU with at least **375 SPECint2000** is required. This applies to SUN Solaris as well as Microsoft Windows 2000.

4.5 Physical Memory

As a minimum configuration for a CCP MISS serving 30 HTTP Clients at least **1024 MB** of physical memory is required. This applies to SUN Solaris as well as Microsoft Windows 2000.

5 Attachment: Report Groups

CCP related reports are assigned to six groups as follows. The important reports are shown. Some reports are available as raw data reports.

Group	Report Name	Identifier
RISK Management		
	Current Liquidating Margin	RPTCC011
	Theoretical Values III (equity)	RPTCC033
	Theoretical Values IV (subscription right)	RPTCC034
	Liquidating Values	RPTCC040
	Liquidating Values II	RPTCC041
	Addition Margin	RPTCC045
	Daily Margin	RPTCC050
	Daily Margin Summary	RPTCC060
	Security/Cash Risk Position	RPTCC080
	Securities Margin Class and Group Information	FPICMGBP
	Theoretical Values: Equities	FPICTHEE
	Theoretical Values: Unconditional Subscription Rights	FPICTHES
Delivery end-of-day		
	Daily Gross Delivery Management	RPTCB230
	Pending Delivery (SWIFT based)	RPTCE260
Settled Delivery		
	Settled Delivery (SWIFT based)	RPTCE270
Corporate Actions		
	Compensation Partner	RPTCA130
	Dividend Cash Statement	RPTCA160
	Capital Adjustments	RPTCA200
	Cash Reversal	RPTCA220
Cash		
	Cash Obligation	RPTCD150
	Daily Fines	RPTCB220
	Pending Price Differences	RPTCD230
	Settled Cash Transactions	RPTCD250
Collateral Management		
	Daily Settlement Statement	RPTCD042
	Daily Cash Account Statement	RPTCD010
	Security Movement and Coverage	RPTCD020
	Daily Securities Valuation	RPTCD031
	Pledged Securities	RPTCD035
	Monthly Securities Movements	RPTCD080

CCP Communications Costs

For connection to the CCP system, Eurex offers fixed line and Internet-based connections, each with 64Kb or 128Kb bandwidth. Members can combine these components to meet their individual requirements. The following choices are available:

Connection Components	Price per Month
Single 128Kb leased line	1,500.00 €
Single 64Kb leased line	1,000.00 €
128Kb Internet connection	750.00 €
64Kb Internet connection	500.00 €
Basic charge	500.00 €

The connection alternatives Premium 1, Combined/Premium 2 and iAccess described in the CCP Preliminary Technical Release Notes can be configured by using a combination of these components. Due to the current low level of interest, the BrowserAccess and iBrowserAccess alternatives will not be offered at this time.

For connection with one leased line, a further back-up connection is required in all cases. The back-up connection must have the same bandwidth as the principal line.

The aggregated monthly communication costs will consist of the costs for the chosen connection components and an additional basic charge of 500.00 €. The communication costs cannot be offset against trading or clearing costs.

For Internet connections the member itself must arrange for Internet access from a service provider of its own choice.

Connection to the CCP system via Multi-member MISS installation, or the use of existing Eurex or Xetra network infrastructure is not foreseen.

Price Examples

1. Connection via 2 leased lines, both with 128Kb bandwidth (technically equivalent to a Xetra Premium 1 connection)

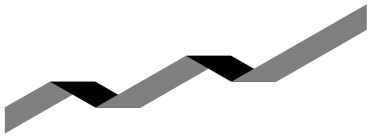
Single 128Kb leased line	1,500.00 €
Single 128Kb leased line	1,500.00 €
Basic Charge	500.00 €
Total	3,500.00 €

2. Connection via 2 leased lines, both with 128Kb bandwidth (technically equivalent to a Xetra Premium 1 connection)

Single 64Kb leased line	1,000.00 €
64Kb Internet connection	500.00 €
Basic Charge	500.00 €
Total	2,000.00 €

Frankfurt, May 17, 2002

Systems Configuration Questionnaire



Please forward to:

Deutsche Börse Systems AG
Customer Service
D-60487 Frankfurt am Main

Fax: +49 69-21 01-1711

Sender

Company name

Department

Street or POB address

Postcode, Town

Member ID: ☐ ☐ ☐ ☐ ☐

First name and name of the **System Administrator** (responsible for system administration and technical changes at the member site)	
Telephone	Fax no.
E-Mail-Address	

First name and name of the **business contact**	
Telephone	Fax no.
E-Mail-Address	

The following description of the participant's planned systems configuration forms the basis for admission and classification by Gruppe Deutsche Börse. For a description of classification principles, please refer to the document Common MISSbased Front End Technical Overview. The documentation can be found in the internet at http:\\www.deutsche-boerse.com in the member specific section at the corresponding trading system.

System configurations must be approved as a prerequisite for access to the electronic trading system.
Should you require installations at more than one location, please complete one set of forms for each location.

Systems Configuration Questionnaire

1. Type of change

- ☐ New member
- ☐ New location
- ☐ Cancel location (go to No. 2 only)
- ☐ New MISS / MISS group for an existing installation
- ☐ New member on an existing multi member installation
- ☐ New market on an existing installation
- ☐ New environment on an existing installation

Please describe briefly:

Systems Configuration Questionnaire

2. Location details

☐ Location details are identical to sender's details

☐ Please note the following location-specific changes:

Company name

Department

First name and name of the technical contact

Street or POB address

Postcode, Town

Telephone Fax no.

E-Mail-Address

3. Connection Type

☐ Leased Line Connection (i.e. Premium 1) ☐ Leased Line connection with internet backup (i.e. Premium 2) ☐ Internet Connection (i.e. iAccess)

4. Requested market installation

Single Market MISS

☐ Xetra

☐ Xetra – Vienna

☐ Xetra – ISE

☐ Eurex

☐ Eurex Bonds

☐ a/c/e

☐ CCP

☐ Newex

☐ EEX Spot Market ☐ EEX Derivatives Market

Multi Market MISS

☐ Xetra – Xetra Vienna

☐ Xetra – Eurex

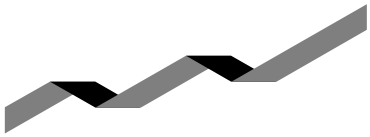
☐ Xetra – CCP

☐ Eurex - CCP

☐ Eurex – a/c/e

☐ other combination:

Systems Configuration Questionnaire



5. Clearing member status

☐ NCM (Non clearing member) ☐ DCM (Direct clearing member) ☐ GCM (General clearing member)

6. If you are a Service Provider or engage a Service Provider please note the following items:

☐ Engagement of a Service Provider

☐ Operate as a Service Provider

☐ Operate as a Service Provider and Trader

7. The system configuration will be used for the following environment

☐ Production & Simulation environment ☐ Production environment only ☐ Simulation environment only

8. Topology

No. of MISSes / operating system	**Sun Solaris** ☐	**Windows 2000** ☐
	Total No. of new MISSes	**Total No. of new MISSes**
	Thereof No. production and simulation	Thereof No. production and simulation
	Thereof No. production only	Thereof No. production only
	Thereof No. simulation only	Thereof No. simulation only
Workstations	Sun Solaris workstation connected to Sun Solaris MISS	Windows workstation connected to Sun Solaris MISS
MISS groups	Number of MISSes per group	Number of MISSes per group

9. Hardware and operating system

If you wish to use different models or operating system versions, we would like to ask you to provide a separate copy of this page for each of these.

☐ **Sun Solaris**	**MISS**	**Workstation**
Number		
System release (i.e. Solaris 8)[1]	Patch level:	Patch level:
Type of processor (i.e. UltraSPARC® III)		
Multi-processor	☐ yes ☐ No	☐ yes ☐ no
Clock speed (i.e. 900 MHz)		
Main Memory (i.e. 512 MB)		
Disk Space (i.e. 40 GB)		

[1] Minimum requirement.

Systems Configuration Questionnaire

☐ **Windows**	**MISS**	**Workstation**
Number		
System release (i.e. Windows 2000 engl: SP2)[4]	SP:	SP:
Type of processor (i.e. Pentium III)		
Multi-processor	☐ yes ☐ No	☐ yes ☐ no
Clock speed (i.e. 1,8 GHz)		
Main Memory (i.e. 512 MB)		
Disk Space (i.e. 40 GB)		

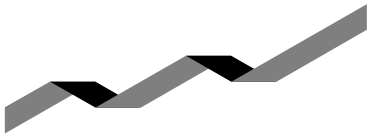
10. Hardware and operating system for Eurex CLEARING screens.

If you wish to use different models or operating system versions, we would like to ask you to provide a separate copy of this point for each of these.

☐ **Sun Solaris**	**MISS**	**Workstation**
Number		
System release (i.e. Solaris 8)[4]	Patch level:	Patch level:
Type of processor (i.e. UltraSPARC® III)		
Multi-processor	☐ yes ☐ No	☐ yes ☐ no
Clock speed (i.e. 900 MHz)		
Main Memory (i.e. 512 MB)		
Disk Space (i.e. 40 GB)		

☐ **Windows**	**MISS**	**Workstation**
Number		
System release (i.e. Windows 2000 engl: SP2)[4]	SP:	SP:
Type of processor (i.e. Pentium III)		
Multi-processor	☐ yes ☐ No	☐ yes ☐ no
Clock speed (i.e. 1,8 GHz)		
Main Memory (i.e. 512 MB)		
Disk Space (i.e. 40 GB)		

Systems Configuration Questionnaire



11. Network - Member LAN

Infrastructure ☐ Ethernet ☐ Fast Ethernet ☐ Token Ring ☐ FDDI ☐ Other

Available bandwith (Mbps)

12. Network - Member LAN Configuration

☐ Separate MISS Router LAN * (2 LAN Configuration)

☐ LAN for MISSes, Router and Workstations ** (1 LAN Configuration)

* = IP addresses for MISS and Router will be assigned by Deutsche Börse AG.

** = IP addresses for MISS, Router and Workstation will be assigned by Deutsche Börse AG.

13. Router (connections to the Access Point); Router (LAN)

☐ Cisco 2610	Number of Routers :	IOS Version (i.e. 12.1.7T):
☐ Cisco 1720	Number of Routers :	IOS Version (i.e. 12.1.(5)T5):
☐ other Cisco (please specify):	Number of Routers :	IOS Version (i.e. 12.1.7T):

14. If you use a Combined Access/Premium 2 or iAccess connection please note the following items:

☐ IP adress and subnet mask (given by the ISP) : IP-adress: ____ ____ ____ ____ Subnet Mask: ____ ____ ____ ____

☐ Domaine Name Server (given by the ISP) : _____

(Please note: Prerequisite for a successful internet connection to the exchange is the appropriate IOS… – sizing of the router(s) [see above]. For detailed information read the “Common MISS-Based Front-end Technical Overview”.)

15. Network Firewall

☐ We are not planning to install a firewall

Installation of firewall will be in:

☐ MISS-Router LAN

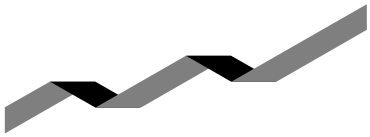
☐ MISS-WS LAN

16 a. Usage of Quote Machine ?	**16 b. Usage of Electronic Eye?**
☐ yes	☐ yes
☐ no	☐ no

17. Type of Trading Application and where will each be used?

☐ Exchange delivered application	☐ MISS	☐ Workstation
☐ Proprietary application	☐ MISS	☐ Workstation
☐ Third party application	☐ MISS	☐ Workstation

Systems Configuration Questionnaire



18. IT System Management

Will the installation and System Management be carried out by your own staff, or will you be using a service provider?

☐ In-house

☐ External Service Provider

Name of provider

First Name and name of System Administrator

Street or POB address

Postcode, Town

Telephone Fax no.

E-Mail-Address

Which type of service carried out by the service provider will be used?

☐ Full Service ☐ Implementation ☐ General consultancy

☐ Operation ☐ Integration of application with third party applications ☐ No service used

19. Third Party Software Products

Please list all Third Party products and any internally developed software in use today, or those planned for implementation within 6 months. Please indicate which are used, and which are planned. Identify the vendor, application name and number of users. Please state if developed in-house by Member, or for the Member.

19.1 VT Emulator on PC if applicable

Vendor

Application ☐ No of users

19.2 Trading Screens and Front End Applications

Vendor

Application ☐ No of users

19.3 Order Routing Applications

Vendor

Application ☐ No of users

19.4 Position Keeping / Monitoring

Vendor

Application ☐ No of users

19.5 Risk Management

Vendor

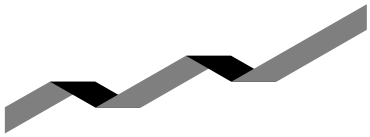
Application ☐ No of users

19.6 Backoffice Applications / Other

Vendor

Application ☐ No of users

Systems Configuration Questionnaire



20. Configuration Outline (strictly required)

Please make sure that your configuration is illustrated as accuratly as possible.
Please mark the existing part in order to accentuate the new part of your configuration.

CCP - Zugangsformular
CCP - Access Order Form

X-pand into the **Future**

Eurex Frankfurt AG

Eurex Member Readiness Team

60487 Frankfurt am Main

Fax: +49-(0)69-2101-1701

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

Hiermit erteilen wir den Auftrag zur Schaltung der nachfolgenden Anbindungskomponenten über einen lokalen Access Point der Gruppe Deutsche Börse / *We hereby apply for the connection of connection components as mentioned in the following via a local access point of Deutsche Börse Group.*

Anbindungsvariante / *Connection Type*

Anzahl separater Standleitungen[1] / *Number of separated leased lines* ☐

Anzahl / *No.*

☐ 128kbit/s Bandbreite einer Standleitung

☐ 64kbit/s Bandbreite einer Standleitung

☐ 128kbit/s Internet

☐ 64kbit/s Internet

Wunschtermin der Installation der Leitungen (TT.MM.JJJJ
Requested Date of Installation of lines (DD.MM.YYYY)

Erste Leitung oder erster Internetzugang / *first Line or first Internet access*
Standort der Endeinrichtung (sofern verfügbar: Modem-Schnittstelle X.21) / *Location of End Facility (if available: Modem Interface X.21).*

Name der Firma / *Name of Company*

Straße / *Street*

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

Gebäudeteil, Etage und Raum-Nr. / *Part of Building, Floor and Room No.*

Technischer Ansprechpartner / *Technical Contact Person*

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

Lokation der Hauseinführung bzw. des Übergabepunktes (Bezeichnung durch den lokalen Netzwerk-Provider) /
Location of Building Entry or of the Separate Cable Entry (Description by the Local Network Provider)

Beschreibung der Hauseinführung / *Description of Building Entry*

☐ Router und Endeinrichtung befinden sich im selben Raum / *Router and end facility are located in the same room*

☐ Router und Endeinrichtung befinden sich in unterschiedlichen Räumen / *Router and end facility are located in different rooms*

☐ Tischgerät / *Desktop Device* ☐ Einschubtechnik / *Rack-mountable* ☐ Andere (wie DNAE, ZDA3, SIMUX o.ä.) – weitere Klärung erforderlich ! / *other technologies – please specify !*

Internet Router IP-Adresse /
Internet Router IP-Address

IOS Version
(e.a.12.1.(5) T5 IPSEC 3DES)

[1] Standleitungsanbindungen müssen redundant, entweder durch mindestens eine zusätzliche Standleitungsanbindung oder einen Internetzugang ausgelegt sein. Die Back-up Anbindung ist mit derselben Bandbreite auszustatten. Die Festverbindung zum Internet Service Provider (ISP) wird vom Teilnehmer selbst beauftragt. Die vom ISP bereitgestellte IP-Adresse ist der Deutsche Börse AG mitzuteilen / Leased lines must be construed redundant, either by at least one additional leased line or by an Internet Access. A backup connection with the same bandwith is mandatory. The Leased line between the Customer and his Internet Service Provider (ISP) must be ordered by the customer. The customer must name Deutsche Börse AG the IP-Adress which is provided by the ISP.

CCP - Zugangsformular
CCP - Access Order Form

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Falls eine Anbindungskomponente an einem weiteren Standort installiert werden soll: / *In case a connection component shall be installed at a further location:*
Standort der Endeinrichtung (sofern verfügbar: Modem-Schnittstelle X.21) / *Location of End Facility (if available: Modem Interface X.21)*

Name der Firma / *Name of Company*

Straße / *Street*

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

Gebäudeteil, Etage und Raum-Nr. / *Part of Building, Floor and Room No.*

Falls nicht identisch: Technischer Ansprechpartner für die zweite Leitung/ *if not identical: Technical Contact Person for the second Line*

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

Lokation der Hauseinführung bzw. des Übergabepunktes (Bezeichnung durch den lokalen Netzwerk-Provider) /
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☐ Tischgerät / *Desktop Device*

☐ Einschubtechnik / *Rack-mountable*

☐ Andere (wie DNAE, ZDA3, SIMUX o.ä.) – weitere Klärung erforderlich ! / *other technologies – please specify !*

Internet Router IP-Adresse / *Internet Router IP-Address*

IOS Version

(e.g.12.1.(5) T5 IPSEC 3DES)

Mit Unterzeichnung dieser Leitungsbestellung verpflichtet sich der Antragsteller, sämtliche Kosten für die Installation und Bereitstellung der Anbindung ab Simulationsstart zu tragen. Dies gilt auch für den Fall, dass

- die Bestellung [Nachbestellung] von Leitungen [weitere(n) Leitung(en)] vom Antragsteller zurückgezogen wird;
- die Leitungen bei Simulationsstart nicht in Betrieb genommen werden.

Die Mindestmietdauer der Leitungen beträgt 1 Jahr. Das Entgelt beträgt monatlich € 1.500 für eine 128kbit/s-Leitung, € 1.000 für eine 64kbit/s-Leitung. Das Entgelt für die Nutzung einer Internet-Anbindung beträgt monatlich € 750 (für eine 128 kbit/s-Leitung) bzw. € 500 (für eine 64kbit/s-Leitung).

With the signing of this line order form all costs for the installation and supply of the lines have to be carried by the applicant from simulation start onwards. This is also valid if:

- *the lines [extra line(s)] are cancelled by the applicant;*
- *the lines are not used after simulation start.*

The minimum leasing period is 1 year. In the cases above, a single128kbit/s line is calculated as Euro 1.500 per month (excluding additional value-added taxes), a single 64kbit/s is calculated as Euro 1.000 (excluding additional value-added taxes). The Internet access is calculated as Euro 750 (for 128kbit/s lines) and Euro 500 (for 64kbit/s lines) per month (excluding additional value-added taxes).

Datum / *Date*

Unterschrift des Auftraggebers / *Signature of Applicant*

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