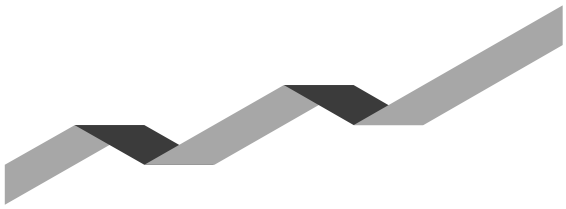
Deutsche Börse



Year 2000 Project

Simulation

Simulation Script

Part I: Overview

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List of Abbreviations

Abbreviation	Meaning
AKV	Auslandskassenverein (*international section of Deutsche Börse Clearing AG*)
BP	Exchange centre *(Börsenplatz)*
CMTP	Cash Market Triggered Process
CTP	Clearing Triggered Process
DBC	Deutsche Börse Clearing
DMTP	Cash Market Triggered Process
FAQ	Frequently Asked Questions
GS	Collective safe custody *(Girosammelverwahrung)*
ISIN	International Securities Identification Number
OTC	Over the counter
SDS	Same Day Settlement
SONDPRO	Special programs *(Sonderprogramme)* for capital repayments and capital changes
STD	Standard processing *(Standard Disposition)*
WKN	German Instrument ID (*Wertpapierkennummer – WKN)*
WM	Wertpapier-Mitteilungen (the German Securities Business Journal)
WSS	Wertpapier Service System
ZLK	DVP purchase *(Zahlungslieferungskauf)*
ZLV	DVP sale *(Zahlungslieferungsverkauf)*

1 Introduction

Deutsche Börse Group / Eurex wish to ensure, both for their customers and their own operations, that the transition of business to the next millennium will be carried out as smoothly as possible. This is why Deutsche Börse Group / Eurex have initiated a project comprising several phases during which appropriate action will be taken. A major part of the overall simulation process is the Year 2000 Overall Simulation I which is carried out jointly by Deutsche Börse Group / Eurex and their participants.

The objective of the Year 2000 Simulation processes is to make sure that all participants of exchange and clearing systems will be ready for business beyond the turn of the year 1999/2000. For this purpose, the year 2000 readiness of all core systems with interfaces to customers will be tested and verified during simulation.

The sections below provide an overview of Year 2000 Overall Simulation 1 and the simulation sequence, followed by a description of the structure of scripts provided and an explanation of script conventions.

1.1 Overview

In May and June 1999 Deutsche Börse Group / Eurex will conduct Overall Simulation I to assist their participants in their preparations for the transition to the year 2000. Overall Simulation I comprises all customer relevant core business processes of Deutsche Börse Group / Eurex and thus enables participants to verify their own year 2000 readiness. All applications will be available with their full functional features.

For this purpose, the cash and derivatives trading systems as well as the clearing systems will be operated in a near-production environment.

The simulation approach is in line with national and international efforts to complete the major part of preparation activities for the year 2000 by mid-1999. The success of the simulation process will be benchmarked on the completion of the Overall Simulation involving the core systems with interfaces to customers by the end of June 1999.

1.2 Procedures

As a prerequisite for the simulation, connection tests are being carried out during the months of March and April 1999.

Overall Simulation I will commence on Monday, 10/05/1999 and continue until Tuesday, 29/06/1999. In order to ensure adequate support and to provide participants with a number of ‘entry points’ for Year 2000 Simulation, Overall Simulation I has been scheduled to take place in five cycles, with the fifth cycle scheduled as a backup cycle. This backup cycle will be available to those participants who were not able to successfully complete their cycle the first time. Participants will be able to take part in several cycles within the scope of Overall Simulation I, including those for which they have not registered (see Figure 1: Year 2000 Overall Simulation I).

Each cycle comprises up to five online days and two days for analysis. A one-day changeover break will occur between the end of each cycle and the beginning of the respective next cycle, to allow for the preparation of systems. Each cycle consists of the two last exchange trading days of 1999 (29/12/1999 and 30/12/1999) and the first three exchange trading days of the year 2000 (03/01/2000; 04/01/2000; 05/01/2000).

Each trade date (e.g. 29/12/1999) will be simulated on a specific calendar day (e.g. 10/05/1999). For further details please refer to the simulation calendar (Simulation Script Part I: Overview, chapter 5.4 Simulation Calendar).

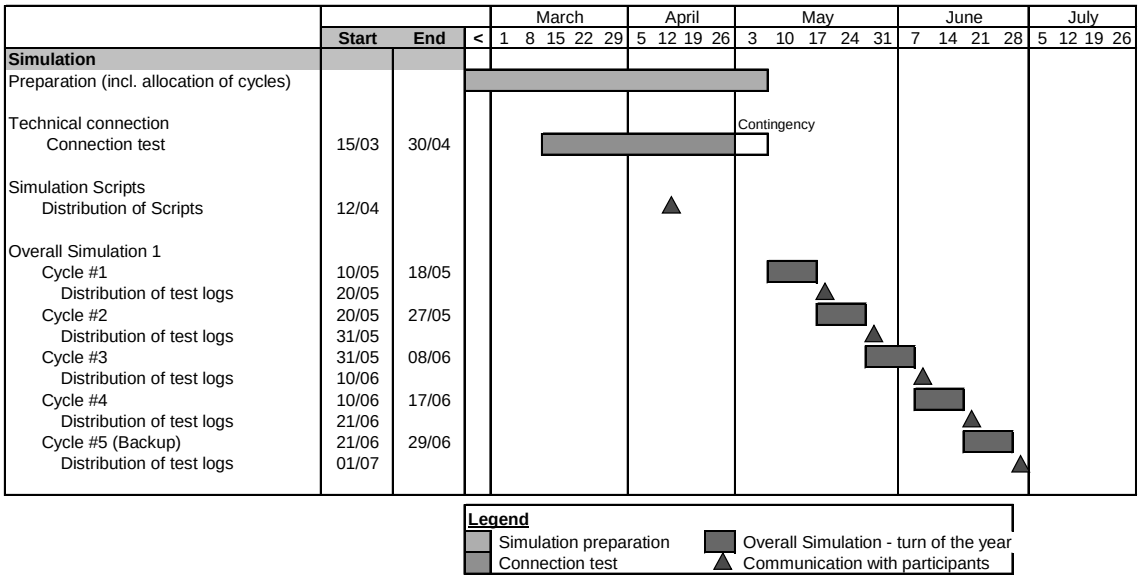


Figure 1: Year 2000 Overall Simulation I

Xetra® will be available from 07:00 to 12:00, BOSS / BOEGA and the clearing systems CASCADE and OLGA from 07:00 to 13:00 and Eurex® from 07:00 to 16:00. For detailed trading schedules for the individual market segments please refer to the Simulation Script Part I: Overview, chapter 5.3 Trading hours.

The transactions comprised in the functional scope of Overall Simulation I have been derived from the core business processes of Deutsche Börse Group / Eurex. The simulation scripts were in turn created on the basis of these transactions. Prior to simulation, the range of instruments used for testing purposes was co-ordinated with *Wertpapier-Mitteilungen* (the German Securities Business Journal) and imported into the WSS Securities Service System. For a detailed list of all instruments provided for simulation in each market segment (forming a part of the WM test file), please refer to the Simulation Script Part I: Overview, chapter 6.5 Instruments / Products.

1.3 Structure of Scripts

The scripts are sub-divided into five parts:

Title		Contents
I	Overview	General information regarding Year 2000 Overall Simulation I, expectations directed at participants, technical set-up.
II	Cash market	Script for the entry and verification of transactions triggered within the cash market.
III	Derivatives market	Script for the entry and verification of transactions triggered within the derivatives market.
IV	Clearing	Script for the entry and verification of transactions triggered within the clearing systems.
V	Appendix	Detailed overview of transactions, list of contacts of simulation participants, glossary.

Table 1: Structure of Simulation Scripts

Part I is also available separately and can be used as an overview for the execution of Year 2000 Overall Simulation I.



Due to the transaction based execution of Year 2000 Simulation, the activities to be performed in the clearing systems are not exclusive to Simulation Script Part IV Clearing. Both Simulation Script Part II: Cash Market and Simulation Script Part III: Derivatives Market comprise activities to be carried out in the clearing systems. These activities are triggered by trades entered into in the trading systems Xetra® and Eurex®.

The participant groups shown below are differentiated for the purposes of the Simulation Scripts:

Participants	Comments	
Xetra®	Activities in	Script Part II: Cash Market
Floor (banks)	Activities in	Script Part II: Cash Market
Makler	Activities in	Script Part II: Cash Market
Eurex®	Activities in	Script Part III: Derivatives Market
CASCADE	Activities in	Script Part II: Cash Market Script Part III: Derivatives Market Script Part IV: Clearing

Participants	Comments	
OLGA	Activities in	Script Part II: Cash Market Script Part III: Derivatives Market Script Part IV: Clearing

Table 2: Simulation participants

The simulation scripts address all participants of Overall Simulation I. The simulation activities for each simulation day are specified in script parts II, III and IV. The scripts are sub-divided by market segments and simulation participants, with an additional distinction by system and trade date on a participant level. Each chapter describes the required activities (typically entries or verifications).

Although the simulation does not include third parties or CSDs (Central Securities Depositories), they are integrated by way of bilateral tests. *Makler* are subject to certain restrictions (refer to Simulation Script Part I: Overview, chapter 5.1 Simulation Participants).

The attributes set out below will be used to describe entries and verifications of simulation activities in script parts II, III and IV.

Attribute	Brief description
Activity	Description of the activity to be carried out. Usually, this refers to a specific entry or the verification of an output.
ID	Each activity is referenced using the ID of a particular underlying transaction. The reference number contains the transaction market segment (e.g. CMTP) and the unique number of the particular transaction (e.g. CMTP05). A separate ID is assigned to each transaction. This allows for the reconciliation of various activities related to a transaction over a number of days. For example, an exchange trade entered into on 29/12/1999 is settled on 03/01/2000. The cross-referencing of activities on these days, using the transaction ID, facilitates reconciliation. Also, the chronological sequence of transactions is illustrated by the listing of IDs in the Appendix (Simulation Script Part V: Appendix, chapter 2: Transactions).
Instruments / products	Instruments or products to be used for this activity. Products in the derivatives market will be shown with their corresponding ISIN. Instruments in the cash market and the clearing systems will be shown with the corresponding instrument ID (WKN). Where more than one instrument or product is specified, the respective activity should be executed for at least *one* of these instruments (in the case of cash market activities), or it should be executed for *all* products specified (in the case of derivatives market activities).

Table 3: Attributes of activities

1.4 Script Conventions

The following icons are used throughout the scripts:



Focus / main subject of the activities described below.



Simulation hours.

Trade date.



Important information for simulation participants.

2 Support by Deutsche Börse Group / Eurex

Throughout the Year 2000 Overall Simulation I Deutsche Börse Group / Eurex will be offering a broad spectrum of support services to participants. In addition to a brief description of the support concept, the lines of communication used to distribute information to participants are outlined below. Reference is also made to additional, corresponding documentation.

2.1 Support Concept

Deutsche Börse Group / Eurex have developed a comprehensive support concept for the execution of Year 2000 Overall Simulation I.

Dedicated support for each participant will only be provided during the cycle for which the respective participant has registered, as well as during a backup cycle (if applicable).

2.2 Contacting Deutsche Börse Group / Eurex

The central point of contact is the Deutsche Börse Group / Eurex Year 2000 Co-Ordination Centre:

Media	Contact details	Availability (on simulation days)
Telephone	+49 / 69 / 21 01 33 00	06:45 – 18:00
Fax	+49 / 69 / 21 01 33 01	
E-mail	YEAR2000@Exchange.de	
Internet	www.Y2K.Exchange.de	
Mail address	Deutsche Börse AG Year 2000 Co-Ordination Centre D-60284 Frankfurt/Main, Germany	

Table 4: Contacting Deutsche Börse Group / Eurex

2.3 Lines of Communication

The Year 2000 Simulation Team will use the lines of communication set out below to distribute information to participants prior to, during and after Overall Simulation I. All messages sent by mail or fax will be addressed to the Year 2000 Co-Ordinator nominated by your company.

Name	Contents	Frequency	Media
Special 2000	Up-to-date information concerning the Year 2000 Project	Every 4 - 6 weeks; depending on demand	Mail, Internet
Fax circular	Urgent, important information during simulation	On demand	Fax
Xetra®: High Priority News	Important short messages regarding Xetra® during simulation	On demand	Online: *Message Log* window
Eurex®: Newsboard	Important short messages regarding Eurex® during simulation	On demand	Online: D050 Newsboard Inquiry / Select
Online user information	Important short messages concerning floor trading and clearing systems during simulation	On demand	Online: DIIN IY

Table 5: Lines of communication to participants

2.4 Documentation

Overall Simulation I will be supported by Simulation Scripts outlining the minimum level of activities required to cover the core business processes of Deutsche Börse Group / Eurex which are relevant for participants

In addition to the scripts providing a guideline for the transactions to be executed, more detailed information is available by way of existing manuals as well as through the Year 2000 Co-Ordination Centre and the Xetra® and Eurex® Member Readiness teams. The following documentation is available from the Year 2000 Project:

Name	Brief description
Simulation Guide	Overview of simulation objectives and approach as well as technical and functional set-up.
Technical Connection Guide	Information regarding the technical connection of systems to the Deutsche Börse simulation environment.
Special 2000	Up-to-date information on the Year 2000 Project. 'Special' editions 1, 2, 3, 3a and 4 have been published until the end of March 1999.
Technical Connection Specification	Information supporting the planning, preparation and execution of the connection tests.
Frequently Asked Questions (FAQ list)	The most frequently asked questions addressed to the Year 2000 Simulation Team.

Table 6: Documentation available from the Year 2000 Project

All documents listed above are available for download from the Internet (www.Y2K.Exchange.de) and can be found in the download area within the member area.

3 Participants' Duties

This chapter summarises the tasks to be executed by simulation participants with respect to entries and verifications and illustrates the procedures used by the Year 2000 Project Team in order to track participants' readiness.

3.1 General Information

The scripts provided have been designed to support for timely entry and verification of various Year 2000 relevant transactions. The main focus is on the tracking of transaction across different systems, from the trading systems through to the clearing systems. Participants have the discretion to simulate additional transactions, whether for training purposes or in order to verify in-house systems and processes. Deutsche Börse Group / Eurex recommend that participants supplement the standard transactions provided by their own specific transactions.

3.2 Entries



With regard to entries, participants are requested to adhere to the minimum activities laid down in the Simulation Scripts, using the instruments or products as set out in the scripts. The success of participation in the simulation will be benchmarked on the basis of instruments and products used in the scripts. Instrument IDs (WKN) are used as key identification data for the purposes of statistics compiled to measure results. Participants are therefore asked to use the instrument IDs (WKN) prescribed solely for the transactions described in the scripts.

Of course, participants have the discretion of carrying out additional entries using other instruments or products. We recommend using this discretion. The following principles apply to all parts of this script:

Name	Brief description
Market Maker / Designated Sponsor	The Market Maker / Designated Sponsor functions will be carried out by participants in analogy to the production environment.
OTC trades	OTC trades will be agreed upon among participants (Xetra®, Eurex®, BOEGA, CASCADE, OLGA). A list of simulation participants for each cycle is provided in the Simulation Script Part V: Appendix, chapter 3 Simulation Participants, to facilitate the entry of trades.
Exchange trades	Participants should input both buy orders and sell orders to allow matching to occur.

Table 7: Principles for entries during simulation

3.3 Verification

Simulation participants should examine the results of all activities and reconcile them with their own in-house systems. The required verifications are described in the scripts. Simulation Script Part I: Overview, chapter 6.6 Reports contains a list of verification documents which will be transmitted by default to simulation participants, including detailed information regarding transmission.

3.4 Confirmation of Readiness

Following the completion of a simulation cycle, each simulation participant involved will receive a "test log" produced by the Year 2000 Simulation Team. This log will communicate the assessment of Deutsche Börse Group / Eurex concerning the success of the participant's activities during simulation. This test log will be forwarded to each participant registered for the particular simulation cycle straight after its completion. Participants will be asked to reconcile the results with their internal assessment.

As a prerequisite for successful participation, participants must have successfully executed all transactions provided in the scripts.

In a statement attached to the test log, participants will provide their own assessment regarding the execution of simulation. Also, if applicable, senior management of each participant will sign a declaration that their systems are year 2000 ready.

4 Transactions

This chapter provides an overview of transactions to be simulated for each market segment (cash market, derivatives market and clearing).

4.1 Overview

The transactions cover the core business processes between Deutsche Börse Group / Eurex and their participants. Script Parts II, III and IV contain a detailed description of 55 transactions for each market segment, sorted by trade date and entry system. To facilitate the overview and reconciliation of transactions, a chronological listing of all transactions is provided in Simulation Script Part V: Appendix, chapter 2 Transactions.

4.2 Cash Market

The simulation of the cash market segment comprises the core processes required for floor trading and electronic exchange trading. For this purpose, participants' attention will be focused on the entry and verification of exchange orders. Exchange trades will be executed in each of the three input systems (BOSS, BOEGA and Xetra®), both at the end of 1999 and at the beginning of 2000. The clearing of exchange trades will require two days and will be carried out in the related cash market and clearing systems. The verification will be performed online or with the help of prescribed lists and reports.

A total of 19 transactions are relevant for the systems described below.

BOSS:

The price fixing for the four instruments used in the Simulation Scripts will be performed internally by Deutsche Börse. In order to ensure that the matching of trades entered via BOSS is properly verified, floor trading participants (banks) are strongly advised to use these instruments only.

The participating *Makler* will enter orders on behalf of two test banks which will be specially installed for each exchange centre. *Makler* will be able to trade the same instruments as in the production environment. Similarly, they will be able to fix prices for all instruments, excluding the instruments handled internally by Deutsche Börse Group / Eurex. Processing will be verified on the basis of prescribed lists and reports.

BOEGA:

The attention of banks will be focused on the entry of OTC trades including the related reversal function. Participants will trade in analogy to the production environment, i.e. they will agree the trades to be entered into between themselves, with no additional guidance. For a list of all simulation participants please refer to the Simulation Script Part V: Appendix, chapter 3 Simulation Participants. Subsequent processing of the transactions will be verified on the basis of prescribed lists and reports.

The participating *Makler* will enter trades on behalf of two test banks which will be specially installed for each exchange centre. All instruments used in production will be available for this purpose, with the exception of the four instruments reserved for price fixing.

Xetra®:

The Xetra participants will enter into exchange trades around the turn of the year. Additionally, OTC trades and stop orders will be entered. Subsequent processing will be verified online, similar to floor trading, or on the basis of prescribed reports.

4.3 Derivatives Market

21 transactions will be simulated for the derivatives market segment.

The main objective of the Eurex® Overall Simulation is the verification of the core functions. This comprises both Eurex® internal transactions and transactions involving other systems.

The simulation for the Eurex® system will comprise order entries, matching and posting, trade management and the processing of exercises, including transactions in both 1999 and 2000. The transactions cover all types of options and futures contracts. Special functions such as stop orders, quotes, block trades, basis trades and futures combinations will be tested explicitly in the year 2000. Participants will be provided with reports to verify the correct processing of entries.

The physical delivery of exercised equity options on domestic shares and the pledging of domestic collateral in the clearing systems are transactions which also involve CASCADE and OLGA, i.e. systems outside Eurex®. It is the objective to test the exchange of data with the clearing systems regarding physical deliveries and the pledging of collateral concerning all settlement participants. Positions will be exercised in 1999, with physical deliveries taking place in 2000. Additionally, the proper settlement of physical deliveries in 2000 will be tested. The scope of testing in connection with the pledging of collateral comprises the correct posting and processing of domestic instruments delivered in the clearing systems in 1999 and 2000, as well as the correct processing of transactions in the Eurex® system in the year 2000.

Participants will be able to verify the transactions using the exercise and clearing data carriers generated in the clearing systems as well as Eurex® reports.

4.4 Clearing

15 transactions will be simulated in the 'clearing' market segment, involving the systems set out below.

CASCADE:

The focus with respect to OTC trades in CASCADE is on the entry of trades with and without countervalue. For this purpose, participants will be required to enter instructions in 1999 as well as in 2000. Instructions entered in 1999 will be tested as pending trades to be settled in 2000. The simulation will cover trades to be settled using STD and SDS. Additional testing will involve trades transferred with entry status from 1999 into the year 2000.

OLGA:

The focus with respect to OTC trades in OLGA is on the entry of trades with and without countervalue. For this purpose, participants will be required to enter instructions in 1999 as well as in 2000. Additional testing will involve trades transferred with entry status from 1999 into the year 2000. The simulation will be restricted to transfers between AKV participants.

Trades simulated in OLGA (transfers between AKV participants) will generally be outside the scope of participants' daily business activities. We would nevertheless like to ask all simulation participants to enter such trades. Deutsche Börse Group / Eurex will carry out bilateral tests with Euroclear and CEDEL in order to ensure that this function is year 2000 ready. Since Euroclear and CEDEL will not participate for the entire duration of Overall Simulation I, the usual case of deliveries versus payment (*ZLV* or *ZLK*) will not be covered by participants' simulation activities.

Capital repayments and changes:

The purpose of this test is to ensure the correct determination, calculation and posting of the cash and securities bookings resulting from capital repayments and changes for instruments held in collective safe custody. For capital repayments a dividend payment and a capital redemption will be simulated for the beginning of 2000. Pending exchange and OTC trades will be adjusted on the basis of capital changes. Additional tests will involve the correct offsetting entries between buyers and sellers for pending exchange and CASCADE trades in the event of dividend payments.

5 Key Simulation Parameters

This chapter provides an overview of key data regarding the organisation of the simulation process, such as the grouping of simulation participants, daily flows and trading hours as well as the entire simulation calendar for Overall Simulation I.

5.1 Simulation Participants

The table shown below lists the business partners of Deutsche Börse Group / Eurex that will participate in Overall Simulation I. As can be seen, the integration of third parties and Central Securities Depositories will be ensured by way of bilateral tests.

Participants	Description
Banks:	Banks will take part in their capacity as participants of the trading and clearing systems.
Makler:	*Makler* will take part in their capacity as floor trading participants (subject to certain restrictions; see below).
Third parties:	As a rule, third parties will not participate directly in the simulation, but will be integrated by way of bilateral tests. Third parties involved include: – BHF (payments) – Federal Debt Agency (*Bundesschuldenverwaltung*) – Chase Manhattan – LZB (Land Central Bank) – SNB (Swiss National Bank) – SIC (Swiss Interbank Clearing) – S.W.I.F.T. (Society for Worldwide Interbank Financial Telecommunication)
Central Securities Depositories:	As a rule, CSDs will not participate directly in the simulation, but will be integrated by way of bilateral tests. Central Securities Depositories involved include: – CEDEL (Centrale de Livraison de Valeurs Mobilières S.A.) – Euroclear – OEKB (Österreichische Kontrollbank) – SEGA (Schweizerische Effekten-Giro-AG) – SICOVAM (Société Interprofessionnelle pour la Compensation des Valeurs Mobilières) – DTC (The Depository Trust Company)

Table 8: Functional grouping of participants for Overall Simulation I



Makler will be able to enter into trades on behalf of test banks. Two test banks will be set up for each exchange centre (KV numbers: 1035, 1037, 2061, 2062, 3120, 3121, 3338, 3339, 4123, 4125, 6049, 6052, 7095, 7099, 8058, 8059). The price fixing for the four instruments used for BOSS simulation purposes will be conducted internally. Consequently, in simulation, the *Makler* responsible

for these instruments in the production environment will not be able to fix prices for any exchange. ***Makler* are urgently requested not to trade on behalf of other simulation participants.** This restriction is necessary in order to ensure the correct verification of the simulation activities of each simulation participant. The clearing of trades carried out by *Makler* will be outside the scope of simulation.

5.2 Daily Flow

Each online simulation day will start at 07:00. The table set out below shows that online access to Xetra® will be provided until 12:00, whereas the floor and clearing systems will be accessible until 13:00, and Eurex® until 16:00. The reports generated by the trading systems Xetra® and Eurex® will be transmitted in the usual manner. Agreements regarding mainframe applications made in the course of technical connection will apply.

Time	Type	System	Description
07:00 – 12:00	Online	Xetra®	Xetra®
07:00 – 13:00	Online	Floor	BOSS / BOEGA
07:00 – 13:00	Online	Clearing	CASCADE / OLGA
07:00 – 16:00	Online	Derivatives market	Eurex®
From 09:00	Batch	Clearing	1st SDS run (incl. LCB accounting cut-off)
From 10:30	Batch	Clearing	2nd SDS run (incl. LCB accounting cut-off)
14:00 – 15:00	File transfer	Cash market	Transmission of BOEGA / Xetra® settlement notes
14:00 – 20:00	File transfer	Clearing	Distribution of settlement data carriers (today's bookings from 1st SDS, 2nd SDS and STD)
20:00	File transfer	Xetra®	Transmission of Xetra® report files (via Xetra® network)
21:00	File transfer	Eurex®	Transmission of Eurex® report files (via Eurex® network)

Table 9: Daily flow of Overall Simulation I

5.3 Trading Hours

This section contains detailed information regarding trading hours for each of the three market segments.

5.3.1 Cash Market

Price fixing for floor trades will only be carried out on trade dates 30/12/1999 and 03/01/2000, with the fixing on 30/12/1999 restricted to Frankfurt only. Deutsche Börse will carry out the price fixing for the four instruments used for BOSS simulation purposes (103001, 604843, 877355, 900304) internally, using KV numbers 1390, 2265, 3801, 3880, 4296, 6299, 7659 and 8800.



Makler of these four instruments fixed internally will be restricted from fixing prices for these instruments for the entire simulation. Otherwise *Makler* are requested to carry out price fixings for the instruments they are responsible for.

The floor trading hours for the trading system BOSS are shown below. The first price fixing is equivalent to the opening price, and the second price fixing corresponds to the mid-day fixing price (*Kassakurs*):

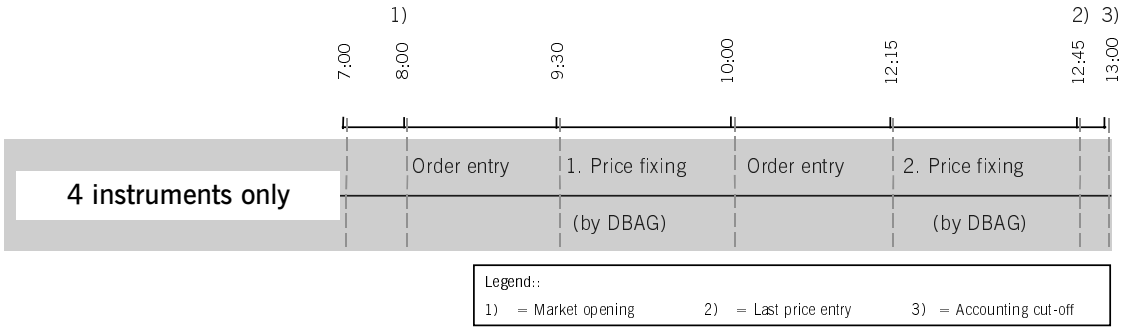


Figure 2: BOSS trading hours

The BOEGA trading hours are in line with the online simulation hours.

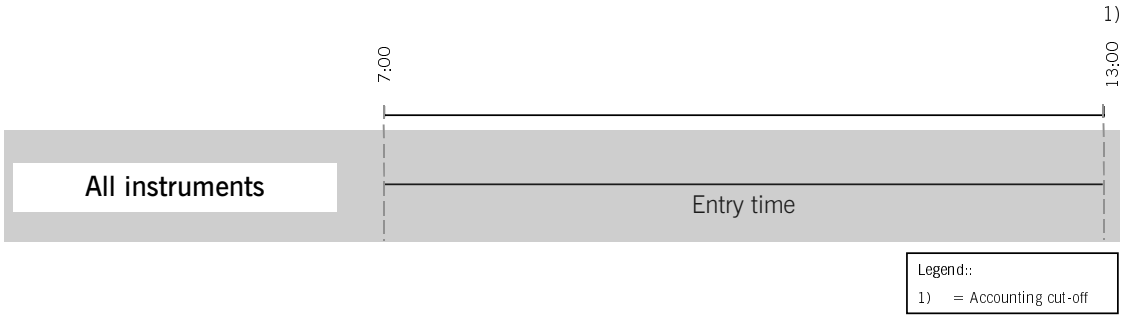


Figure 3: BOEGA trading hours

The Xetra® trading hours are shown below:

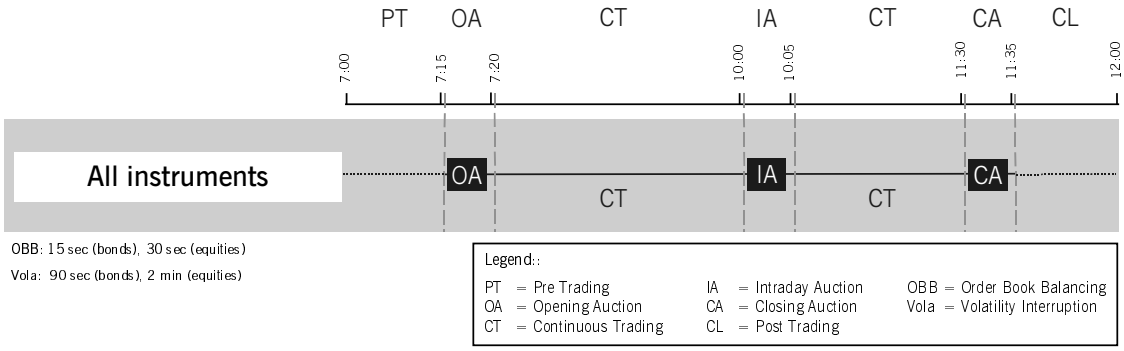


Figure 4: Xetra® trading hours

5.3.2 Derivatives Market

The figure shown below illustrates the Eurex® trading hours for Overall Simulation I. Generally, the half-hour pre-trading period will be followed by a pre-opening period of approx. 10 minutes for all products.

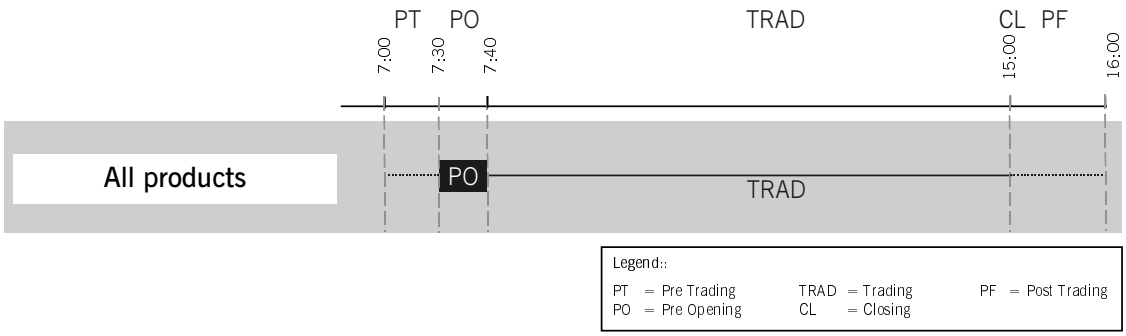


Figure 5: Eurex® trading hours

5.3.3 Clearing

The CASCADE specific SDS processing runs will be spread across the online time, whilst OLGA trading hours will be in line with the online simulation hours.

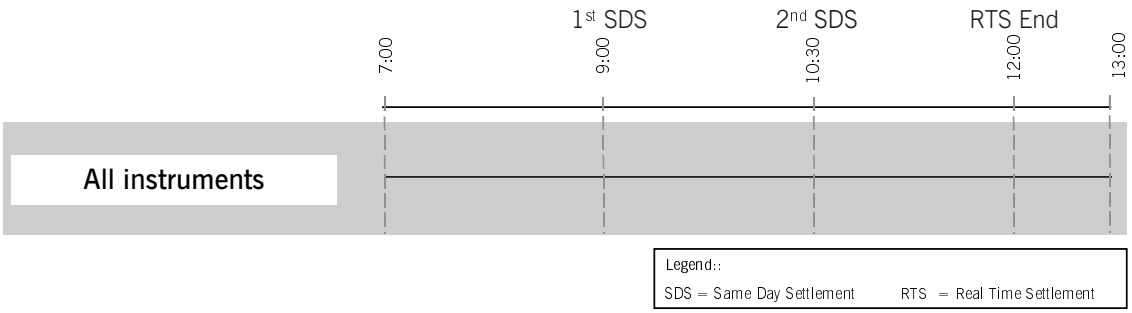


Figure 6: CASCADE trading hours

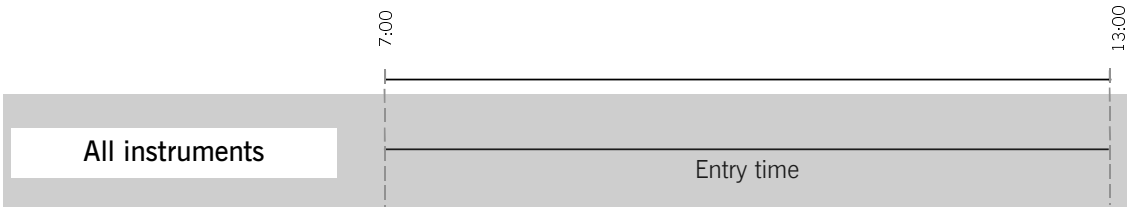


Figure 7: OLGA trading hours

5.4 Simulation Calendar

The following pages show the simulation calendar for Overall Simulation I illustrating the scheduled daily flows. The public holidays during Overall Simulation I have been duly taken into account. In order to ease the transition on the change of the year, 31/12/1999 will be assumed to be a public holiday for the German market.

Cycle #1: First Week of simulation							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	10/05	11/05	12/05	13/05	14/05	15/05	16/05
Trade date	29/12/1999	30/12/1999			03/01/2000		
Xetra®	07:00 - 12:00	07:00 - 12:00			07:00 - 12:00		
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00			07:00 - 13:00		
Clearing	07:00 - 13:00	07:00 - 13:00			07:00 - 13:00		
Eurex®	07:00 - 16:00	07:00 - 16:00	No	No	07:00 - 16:00		
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation	Simulation	Cash Market from 12:00		
	Derivatives Market from 16:00	Derivatives Market from 16:00			Derivatives Market from 16:00		
	Clearing 1st SDS run, value date 29/12 from 09:00	Clearing 1st SDS run, value date 30/12 from 09:00			Clearing 1st SDS run, value date 03/01 from 09:00		
	Clearing 2nd SDS run, value date 29/12 from 10:30	Clearing 2nd SDS run, value date 30/12 from 10:30			Clearing 2nd SDS run, value date 03/01 from 10:30		
	Clearing STD run, value date 30/12 from 14:00	Clearing STD run, value date 03/01 from 14:00		Ascension Day	Clearing STD run, value date 04/01 from 14:00		
	Clearing Global from 14:00	Clearing Global from 14:00			Clearing Global from 14:00		
Special features		End-of-month, end-of-year					

Cycle #1: Second week of simulation				Cycle #2: First Week of simulation			
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	17/05	18/05	19/05	20/05	21/05	22/05	23/05
Trade date	04/01/2000	05/01/2000		29/12/1999	30/12/1999		
Xetra®	07:00 - 12:00	07:00 - 12:00		07:00 - 12:00	07:00 - 12:00		
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00	07:00 - 13:00		
Clearing	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00	07:00 - 13:00		
Eurex®	07:00 - 16:00	07:00 - 16:00	No	07:00 - 16:00	07:00 - 16:00		
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation	Cash Market from 12:00	Cash Market from 12:00		
	Derivatives Market from 16:00	Derivatives Market from 16:00		Derivatives Market from 16:00	Derivatives Market from 16:00		
	Clearing 1st SDS run, value date 04/01 from 09:00	Clearing 1st SDS run, value date 05/01 from 09:00		Clearing 1st SDS run, value date 29/12 from 09:00	Clearing 1st SDS run, value date 30/12 from 09:00		
	Clearing 2nd SDS run, value date 04/01 from 10:30	Clearing 2nd SDS run, value date 05/01 from 10:30		Clearing 2nd SDS run, value date 29/12 from 10:30	Clearing 2nd SDS run, value date 30/12 from 10:30		
	Clearing STD run, value date 05/01 from 14:00	Clearing STD run, value date 06/01 ab 14:00	Conversion	Clearing STD run, value date 30/12 from 14:00	Clearing STD run, value date 03/01 from 14:00		
	Clearing Global from 14:00	Clearing Global from 14:00		Clearing Global from 14:00	Clearing Global from 14:00		
Special features					End-of-month, end-of-year		

Figure 8: Simulation calendar I, 10/05/1999 – 21/05/1999

Key Simulation Parameters

Cycle #2: Second week of simulation							
	Monday 24/05	Tuesday 25/05	Wednesday 26/05	Thursday 27/05	Friday 28/05	Saturday 29/05	Sunday 30/05
Trade date		03/01/2000	04/01/2000	05/01/2000			
Xetra®		07:00 - 12:00	07:00 - 12:00	07:00 - 12:00			
BOSS / BOEGA		07:00 - 13:00	07:00 - 13:00	07:00 - 13:00			
Clearing		07:00 - 13:00	07:00 - 13:00	07:00 - 13:00			
Eurex®	No	07:00 - 16:00	07:00 - 16:00	07:00 - 16:00	No		
Batches	Simulation	Cash Market from 12:00	Cash Market from 12:00	Cash Market from 12:00	Simulation		
		Derivatives Market from 16:00	Derivatives Market from 16:00	Derivatives Market from 16:00			
		Clearing 1st SDS run, value date 03/01 from 09:00	Clearing 1st SDS run, value date 04/01 from 09:00	Clearing 1st SDS run, value date 05/01 from 09:00			
		Clearing 2nd SDS run, value date 03/01 from 10:30	Clearing 2nd SDS run, value date 04/01 from 10:30	Clearing 2nd SDS run, value date 05/01 from 10:30			
	Whit Monday	Clearing STD run, value date 04/01 from 14:00	Clearing STD run, value date 05/01 from 14:00	Clearing STD run, value date 06/01 ab 14:00	Conversion		
		Clearing Global from 14:00	Clearing Global from 14:00	Clearing Global from 14:00			
Special features							

Cycle #3: First Week of simulation							
	Monday 31/05	Tuesday 01/06	Wednesday 02/06	Thursday 03/06	Friday 04/06	Saturday 05/06	Sunday 06/06
Trade date	29/12/1999	30/12/1999			03/01/2000		
Xetra®	07:00 - 12:00	07:00 - 12:00			07:00 - 12:00		
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00			07:00 - 13:00		
Clearing	07:00 - 13:00	07:00 - 13:00			07:00 - 13:00		
Eurex®	07:00 - 16:00	07:00 - 16:00	No	No	07:00 - 16:00		
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation	Simulation	Cash Market from 12:00		
	Derivatives Market from 16:00	Derivatives Market from 16:00			Derivatives Market from 16:00		
	Clearing 1st SDS run, value date 29/12 from 09:00	Clearing 1st SDS run, value date 30/12 from 09:00			Clearing 1st SDS run, value date 03/01 from 09:00		
	Clearing 2nd SDS run, value date 29/12 from 10:30	Clearing 2nd SDS run, value date 30/12 from 10:30			Clearing 2nd SDS run, value date 03/01 from 10:30		
	Clearing STD run, value date 30/12 from 14:00	Clearing STD run, value date 03/01 from 14:00		Corpus Christi	Clearing STD run, value date 04/01 from 14:00		
	Clearing Global from 14:00	Clearing Global from 14:00			Clearing Global from 14:00		
Special features		End-of-month, end-of-year					

Figure 9: Simulation calendar II, 24/05/1999 – 04/06/1999

Key Simulation Parameters

Cycle #3: Second week of simulation				Cycle #4: First Week of simulation			
	Monday 07/06	Tuesday 08/06	Wednesday 09/06	Thursday 10/06	Friday 11/06	Saturday 12/06	Sunday 13/06
Trade date	04/01/2000	05/01/2000		29/12/1999	30/12/1999		
Xetra®	07:00 - 12:00	07:00 - 12:00		07:00 - 12:00	07:00 - 12:00		
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00	07:00 - 13:00		
Clearing	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00	07:00 - 13:00		
Eurex®	07:00 - 16:00	07:00 - 16:00	No	07:00 - 16:00	07:00 - 16:00		
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation	Cash Market from 12:00	Cash Market from 12:00		
	Derivatives Market from 16:00	Derivatives Market from 16:00		Derivatives Market from 16:00	Derivatives Market from 16:00		
	Clearing 1st SDS run, value date 04/01 from 09:00	Clearing 1st SDS run, value date 05/01 from 09:00		Clearing 1st SDS run, value date 29/12 from 09:00	Clearing 1st SDS run, value date 30/12 from 09:00		
	Clearing 2nd SDS run, value date 04/01 from 10:30	Clearing 2nd SDS run, value date 05/01 from 10:30		Clearing 2nd SDS run, value date 29/12 from 10:30	Clearing 2nd SDS run, value date 30/12 from 10:30		
	Clearing STD run, value date 05/01 from 14:00	Clearing STD run, value date 06/01 ab 14:00	Conversion	Clearing STD run, value date 30/12 from 14:00	Clearing STD run, value date 03/01 from 14:00		
	Clearing Global from 14:00	Clearing Global from 14:00		Clearing Global from 14:00	Clearing Global from 14:00		
Special features					End-of-month, end-of-year		

Cycle #4: Second week of simulation							
	Monday 14/06	Tuesday 15/06	Wednesday 16/06	Thursday 17/06	Friday 18/06	Saturday 19/06	Sunday 20/06
Trade date		03/01/2000	04/01/2000	05/01/2000			
Xetra®		07:00 - 12:00	07:00 - 12:00	07:00 - 12:00			
BOSS / BOEGA		07:00 - 13:00	07:00 - 13:00	07:00 - 13:00			
Clearing		07:00 - 13:00	07:00 - 13:00	07:00 - 13:00			
Eurex®	No	07:00 - 16:00	07:00 - 16:00	07:00 - 16:00	No		
Batches	Simulation	Cash Market from 12:00	Cash Market from 12:00	Cash Market from 12:00	Simulation		
		Derivatives Market from 16:00	Derivatives Market from 16:00	Derivatives Market from 16:00			
		Clearing 1st SDS run, value date 03/01 from 09:00	Clearing 1st SDS run, value date 04/01 from 09:00	Clearing 1st SDS run, value date 05/01 from 09:00			
		Clearing 2nd SDS run, value date 03/01 from 10:30	Clearing 2nd SDS run, value date 04/01 from 10:30	Clearing 2nd SDS run, value date 05/01 from 10:30			
		Clearing STD run, value date 04/01 from 14:00	Clearing STD run, value date 05/01 from 14:00	Clearing STD run, value date 06/01 ab 14:00	Conversion		
		Clearing Global from 14:00	Clearing Global from 14:00	Clearing Global from 14:00			
Special features							

Figure 10: Simulation calendar III, 07/06/1999 – 18/06/1999

Key Simulation Parameters

Cycle #5: First Week of simulation							
	Monday 21/06	Tuesday 22/06	Wednesday 23/06	Thursday 24/06	Friday 25/06	Saturday 26/06	Sunday 27/06
Trade date	29/12/1999	30/12/1999		03/01/2000			
Xetra®	07:00 - 12:00	07:00 - 12:00		07:00 - 12:00			
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00			
Clearing	07:00 - 13:00	07:00 - 13:00		07:00 - 13:00			
Eurex®	07:00 - 16:00	07:00 - 16:00	No	07:00 - 16:00	No		
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation	Cash Market from 12:00	Simulation		
	Derivatives Market from 16:00	Derivatives Market from 16:00		Derivatives Market from 16:00			
	Clearing 1st SDS run, value date 29/12 from 09:00	Clearing 1st SDS run, value date 30/12 from 09:00		Clearing 1st SDS run, value date 03/01 from 09:00			
	Clearing 2nd SDS run, value date 29/12 from 10:30	Clearing 2nd SDS run, value date 30/12 from 10:30		Clearing 2nd SDS run, value date 03/01 from 10:30			
	Clearing STD run, value date 30/12 from 14:00	Clearing STD run, value date 03/01 from 14:00		Clearing STD run, value date 04/01 from 14:00			
	Clearing Global from 14:00	Clearing Global from 14:00		Clearing Global from 14:00			
Special features		End-of-month, end-of-year					

Cycle #5: Second week of simulation							
	Monday 28/06	Tuesday 29/06	Wednesday 30/06	Thursday 01/07	Friday 02/07	Saturday 03/07	Sunday 04/07
Trade date	04/01/2000	05/01/2000					
Xetra®	07:00 - 12:00	07:00 - 12:00					
BOSS / BOEGA	07:00 - 13:00	07:00 - 13:00					
Clearing	07:00 - 13:00	07:00 - 13:00					
Eurex®	07:00 - 16:00	07:00 - 16:00	End of				
Batches	Cash Market from 12:00	Cash Market from 12:00	Simulation				
	Derivatives Market from 16:00	Derivatives Market from 16:00					
	Clearing 1st SDS run, value date 04/01 from 09:00	Clearing 1st SDS run, value date 05/01 from 09:00					
	Clearing 2nd SDS run, value date 04/01 from 10:30	Clearing 2nd SDS run, value date 05/01 from 10:30					
	Clearing STD run, value date 05/01 from 14:00	Clearing STD run, value date 06/01 ab 14:00					
	Clearing Global from 14:00	Clearing Global from 14:00					
Special features							

Figure 11: Simulation calendar IV, 21/06/1999 – 29/06/1999

6 Technical Information

This chapter provides general technical information concerning Overall Simulation I. A general description of set-up is followed by explanations regarding access to the simulation environment as well as the conventions used for user IDs and passwords. The next section is a complete listing of instruments and products used in the scripts by market segment. The chapter closes with a description of procedures to establish additional positions for the instruments specified and additional information on the documents used for verification.

6.1 Set-up

Following the completion of end-of-day processing on 23 April 1999, Deutsche Börse Group / Eurex will produce backup copies which will then be used in the IMS24 environment as base data for each cycle of Overall Simulation I.

In particular, this backup procedure includes saving of custody account positions (domestic / foreign) as well as foreign cash balances for the clearing systems.

Participants are requested to also generate backup copies of their positions, to ensure matching position information for participants and Deutsche Börse Group / Eurex at the outset of simulation.

For detailed information regarding changes to positions for the simulation instruments please refer to Simulation Script Part I: Overview, chapter 6.4 Positions.

6.2 Access to the Simulation Environment

Generally speaking, Deutsche Börse Group will utilise a separate Year 2000 simulation environment on each of the system platforms being used. The simulation of the trading systems Eurex® and Xetra® will take place using the respective permanent simulation environments. A dedicated mainframe system will be made available for mainframe applications related to floor trading and clearing systems.

Connection tests regarding access to this mainframe system (IMS24) are currently being carried out, since successful connection is a prerequisite for participation in Overall Simulation I. Since the existing permanent simulation environments will be used for Xetra® and Eurex®, no further steps are required for the connection.

For more detailed information please refer to the "Technical Connection Specifications" and the "Technical Connection Guide".

6.3 User IDs and Passwords

The user IDs and passwords for the permanent simulation environments of Xetra® and Eurex® will remain unchanged.

The user IDs and passwords or SNA order routing will be identical to previous cash market simulations.

New specific user IDs, user profiles and (numeric) passwords for MVS applications will be set up for all *Makler* and banks. Participants will be assigned five user IDs for each DBC account number. These user IDs will consist of the 4 digit DBC account number of the respective participant, followed by a 6 digit identification, starting with "000 000" and ending with "000 004". Regardless of existing restrictions applicable in production, these user IDs will be fully authorised for all types of transactions.

The total package of user IDs and passwords will be distributed to simulation participants by separate mail during April. Please contact the Year 2000 Co-Ordination Centre (Simulation Script Part I: Overview, chapter 2.2 Contacting Deutsche Börse Group / Eurex) if you should encounter any access problems.

6.4 Positions

To facilitate the smooth execution of the script specific activities by all participants, additional positions will be created for the simulation instruments, on top of the positions existing in production at the close of trading on 23/04/1999. The positions available for disposition as at 23/04/1999 will still be posted during evening processing; all other pending positions available for disposition will be ignored.

The amounts of positions added will be set in a way so as to ensure the execution of transactions, with an addition of 10,000 shares (for shares in collective safe custody) or 1,000 shares (for shares held with AKV), respectively. Bond positions will be added in a nominal amount (in the deposit currency) of 10,000,000 (for bonds in collective safe custody) or 100,000 (for bonds held with AKV), respectively. The existing positions taken from production will not be affected.



These position movements will be carried out prior to the start of simulation. Therefore, no SWIFT messages concerning the successful transfer of positions will be sent to participants in this respect. In order to ensure identical positions in your in-house systems at the outset of simulation, you will need to carry out manual position adjustments in your internal systems. Position movements will only be carried out for head offices, not for branches.

Altogether, 45 instruments will be used - 26 shares and 19 bonds. For detailed information regarding simulation instruments for each market segment and corresponding position movements, please refer to Simulation Script Part I: Overview, chapter 6.5 Instruments / Products.

6.5 Instruments / Products

Generally all instruments or products are available for trading in Overall Simulation I.

In close co-ordination with Deutsche Börse Group / Eurex, *Wertpapier-Mitteilungen* Frankfurt (WM) have produced a test file for the millennium change.

The test instruments used in the Overall Simulations are derived from this test file. This test file has been offered to WM customers in calendar week 10/1999 by way of a customer information, with delivery by WM in calendar week 14 or 15/1999. The correct maintenance of master data in WSS will be guaranteed for these instruments only.



Four test instruments will be subject to minor changes compared to the data contained in the WM test file. Simulation participants downloading the test file data into their own systems will have to manually perform these changes. For details please refer to Simulation Script Part I: Overview, chapter 6.5.4 Changes to the WM Test File.

The 45 test instruments used in the simulation scripts include 33 instruments held in collective safe custody and 12 held with AKV, or 26 shares and 19 bonds, respectively. These instruments form part of the data provided with the WM test file and are listed below, by market segment.

6.5.1 Cash Market

25 instruments will be used for the cash market simulation, 10 of which are traded in Xetra®, 4 in BOSS and 11 in BOEGA.

System	WKN	Description	Custody	Position	Transaction
BOEGA	109007	6.25 TREUH.ANL 94/04	GS	+ 10‘000‘000	CMTP11
BOEGA	114125	5 BUNDESOBL.V.97/02	GS	+ 10‘000‘000	CMTP15
BOEGA	231836	5,625 US TREASURY 2008	AKV	+ 100‘000	CMTP12
BOEGA	350406	4,13 FUCHS PETROL.WDL.97	GS	+ 10‘000‘000	CMTP19
BOEGA	413731	4,5 MEDIOBCA 94-00 RINAS.	AKV	+ 100‘000	CMTP10
BOEGA	627500	KARSTADT AG	GS	+ 10‘000	CMTP15
BOEGA	725750	METRO AG ST O.N.	GS	+ 10‘000	CMTP11
BOEGA	765800	VOGEL AG BETEILIG.	GS	+ 10‘000	CMTP18
BOEGA	802200	BAY.HYPO-VEREINSBK.O.N.	GS	+ 10‘000	CMTP17
BOEGA	873580	BAA PLC	AKV	+ 1‘000	CMTP12
BOEGA	897791	ENI S.P.A.	AKV	+ 1‘000	CMTP10
BOSS	103001	8,5 BUND ANL.V.91DT.EINH.	GS	+ 10‘000‘000	CMTP02
BOSS	604843	HENKEL KGAA VZO O.N.	GS	+ 10‘000	CMTP02

System	WKN	Description	Custody	Position	Transaction
BOSS	877355	SMITHKLINE BEECH. LS-0625	AKV	+ 1‘000	CMTP16
BOSS	900304	CHINA CONS.HLDGS	AKV	+ 1‘000	CMTP01
Xetra®	109005	6,625 TREUH.ANL 93/03	GS	+ 10‘000‘000	CMTP09
Xetra®	113487	7,25 BUNDANL.V.92	GS	+ 10‘000‘000	CMTP08
Xetra®	113505	5,25 BUNDANL.V.98/10	GS	+ 10‘000‘000	CMTP05
Xetra®	114127	4,5 BUNDESOBL.V.98/03	GS	+ 10‘000‘000	CMTP07
Xetra®	575800	HOECHST AG O.N.	GS	+ 10‘000	CMTP08
Xetra®	648300	LINDE AG	GS	+ 10‘000	CMTP07
Xetra®	716463	SAP AG VZO O.N.	GS	+ 10‘000	CMTP09
Xetra®	717200	SCHERING AG O.N.	GS	+ 10‘000	CMTP05
Xetra®	870547	AMER GRP LTD A	AKV	+ 1‘000	CMTP06
Xetra®	870747	MICROSOFT CORP.	AKV	+ 1‘000	CMTP06

Table 10: Simulation instruments for the cash market segment

6.5.2 Derivatives Market

The derivatives market simulation will comprise 4 instruments for the purposes of physical delivery or the pledging of collateral, as well as 15 products.

System	WKN	Description	Custody	Position	Transaction
Eurex®	113495	7,5 BUNDANL.V. 94/04	GS	+ 10‘000‘000	DMTP10
Eurex®	109001	7.375 TREUH.ANL.V.92	GS	+ 10‘000‘000	DMTP20, DMTP21
Eurex®	723600	SIEMENS AG	GS	+ 10‘000	DMTP13, DMTP14
Eurex®	804610	DRESDNER BANK AG O.N.	GS	+ 10‘000	DMTP17, DMTP18, DMTP19

Table 11: Simulation instruments for the derivatives market segment (only physical delivery and collateral)

System	Product type	Currency	Product	Transaction
Eurex®	Equity options	EUR	OSTK (ALV)	DMTP01, DMTP05, DMTP13, DMTP14
Eurex®	Equity options	EUR	OSTK (DRB)	DMTP17, DMTP18, DMTP19
Eurex®	Equity options	CHF	OSTK (CSGN)	DMTP01, DMTP05
Eurex®	Index options	EUR	ODAX	DMTP01, DMTP05, DMTP09, DMTP11
Eurex®	Index options	CHF	OSMI	DMTP01, DMTP05
Eurex®	Options on capital market futures	EUR	OGBM	DMTP01, DMTP05, DMTP07, DMTP15, DMTP16
Eurex®	Options on money market futures	EUR	OEU3	DMTP01, DMTP05
Eurex®	Capital market futures	EUR	FGBM	DMTP02, DMTP06, DMTP12
Eurex®	Capital market futures	EUR	FGBL	DMTP10
Eurex®	Capital market futures	CHF	CONF	DMTP02, DMTP06, DMTP07
Eurex®	Money market futures	EUR	FLI3	DMTP02, DMTP06
Eurex®	Money market futures	EUR	FEU3	DMTP03, DMTP04
Eurex®	Money market futures	DEM	LIB3	DMTP02, DMTP06
Eurex®	Index futures	EUR	FDAX	DMTP02, DMTP06, DMTP08
Eurex®	Index futures	CHF	FSMI	DMTP02, DMTP06

Table 12: Eurex® simulation products

6.5.3 Clearing

16 instruments will be used for the clearing simulation.

System	WKN	Description	Custody	Position	Transaction
CASCADE	103000	8,75 BUND ANL.V.90	GS	+ 10‘000‘000	CTP03
CASCADE	109009	7,5 TREUH.ANL 94/04	GS	+ 10‘000‘000	CTP07
CASCADE	113506	5,625 BRD v. 98	GS	+ 10‘000‘000	CTP13
CASCADE	113953	7,75 BUNDESSCH.BR.A 1995	GS	+ 10‘000‘000	CTP04
CASCADE	288148	7 STSPK.MUENCHEN IS.S159	GS	+ 10‘000‘000	CTP13
CASCADE	515100	BASF AG O.N.	GS	+ 10‘000	CTP01
CASCADE	600173	HACH AG VZO	GS	+ 10‘000	CTP14
CASCADE	634800	KABEL RHEYDT AG	GS	+ 10‘000	CTP15
CASCADE	761440	VEBA AG	GS	+ 10‘000	CTP06
CASCADE	766400	VOLKSWAGEN AG ST O.N.	GS	+ 10‘000	CTP05
CASCADE	803200	COMMERZBANK AG O.N.	GS	+ 10‘000	CTP02
CASCADE	849100	UNIFONDS	GS	+ 10‘000	CTP12
OLGA	402252	9,125 UTD KINGDOM 91/01	AKV	+ 100‘000	CTP11
OLGA	406765	8,5 EIB EUR. INV.BK 92/04	AKV	+ 100‘000	CTP09
OLGA	852009	PFIZER INC.	AKV	+ 1‘000	CTP10
OLGA	876178	AMSTRAD PLC	AKV	+ 1‘000	CTP08

Table 13: Simulation instruments for clearing

6.5.4 Changes to the WM Test File

The changes set out below will have to be carried out manually, prior to simulation, by simulation participants downloading the WM test file into their systems. The values to be changed from the test file data are shown in **boldface**.

WKN 103001 - 8,5 BUND ANL.V.91DT.EINH.

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  1 ---
103001  BF01         8,5  BUND ANL.V.91DT.EINH. STV  20.02.G   GS   EO

VERWAHRMOEGL/ART STV EINZ.FORD.MOEGL.  COURTAGE-KLASSE      S. TAB-F02 SCHL. 2D
EINHEIT NOTIZ                     %  INDEX-KENNZEICHEN
DEPOTWAEHRUNG                    EO  ZULASSUNG/STATUS                DATUM
ABRECHNUNGS-WRG                 EUR  BL            TAG 1. NOTIERUNG 13.02.1991
BOEGA-ABRECHNUNGS-WRG           EUR  BR            TAG 1. NOTIERUNG 13.02.1991
ERSATZPARITAET                       DD            TAG 1. NOTIERUNG 13.02.1991
KL.HANDELB.EINH.                0,01  FF            TAG 1. NOTIERUNG 13.02.1991
NENNW.ZUM STUECK                     HB            TAG 1. NOTIERUNG 13.02.1991
KZ OHNE NENNWERT                     HA            TAG 1. NOTIERUNG 13.02.1991
                                     MC            TAG 1. NOTIERUNG 13.02.1991
                                     ST            TAG 1. NOTIERUNG 13.02.1991
ZINSBER.-METHODE       ACT/ACT (ISMA)  XETRA         TAG 1. NOTIERUNG 12.10.1998
TRENNTERMIN                 TAGE    1  EUREX  N

INH/NAMENSPAPIER        INHABERPAPIER  BOEGA         FREIGEGEBEN  AB 04.12.1992
HEIMAT-/AUSLANDSBOERSE            EDF      GUELTIG AB 02.03.2000 BIS 9999999999
```

Figure 12: Master data for WKN 103001 – page 1

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  2 ---
103001  BF01         8,5  BUND ANL.V.91DT.EINH. STV  20.02.G   GS   EO
              BL        BR        DD        FF        HB        HA        MC        ST
MARKT      AMT.H     AMT.H     AMT.H     AMT.H     AMT.H     AMT.H     AMT.H     AMT.H
EINH.NOT.      J         J         J         J         J         J         J         J
-BETRAG    0,010     0,010     0,010     0,010     0,010     0,010     0,010     0,010
-INKREMENT    VF        VF        VF        VF        VF        VF        VF        VF
VAR. NOT.      J         J         J         J         J         J         J         J
-BETRAG    0,010   1000000     0,010   1000000   1000000   1000000   1000000   1000000
-INKREMENT    VF        VF        VF        VF        VF        VF        VF        VF
MAKLER       390       880       296       659       801       800       265       299
DSK
BOSS-AB 16.08.93 01.09.93 10.05.93 01.04.93 01.07.93 12.07.93 19.07.93 02.08.93
STOP-LOSS/BUY  J         J         J         J         J         J         J         J
L.H-TAG
```

Figure 13: Master data for WKN 103001 – page 2

WKN 604843 - HENKEL KGAA VZO O.N.

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  1 ---
604843  HEN3              HENKEL KGAA VZO O.N.                  GS   ST

VERWAHRMOEGL/ART      GIROSAMMELVERW.  COURTAGE-KLASSE     AKTIEN M.DAX-30-WERT
EINHEIT NOTIZ                     ST  INDEX-KENNZEICHEN            DAX 30 WERT
DEPOTWAEHRUNG                     DM  ZULASSUNG/STATUS                DATUM
ABRECHNUNGS-WRG                  EUR  BL           TAG 1. NOTIERUNG 28.11.1997
BOEGA-ABRECHNUNGS-WRG            EUR  BR           TAG 1. NOTIERUNG 28.11.1997
ERSATZPARITAET                        DD           TAG 1. NOTIERUNG 28.11.1997
KL.HANDELB.EINH.                   1  FF           TAG 1. NOTIERUNG 28.11.1997
NENNW.ZUM STUECK                      HB           TAG 1. NOTIERUNG 28.11.1997
KZ OHNE NENNWERT       OHNE NENNWERT  HA           TAG 1. NOTIERUNG 28.11.1997
RECHN.NENNWERT BEI                    MC           TAG 1. NOTIERUNG 28.11.1997
NENNWERTL.ST-AKT.                  5  ST           TAG 1. NOTIERUNG 28.11.1997
                                      XETRA        TAG 1. NOTIERUNG 28.11.1997
                                      EUREX  J   TAG 1. INFORMATION 23.09.1996
WARRANT-SEGMENT
INH/NAMENSPAPIER       INHABERPAPIER  BOEGA         FREIGEGEBEN  AB 04.12.1992
HEIMAT-/AUSLANDSBOERSE           EDD      GUELTIG AB 04.01.1999 BIS 9999999999
```

Figure 14: Master data for WKN 604843 – page 1

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  2 ---
604843  HEN3              HENKEL KGAA VZO O.N.                  GS   ST
              BL       BR       DD       FF       HB       HA       MC       ST
MARKT      AMT.H    AMT.H    AMT.H    AMT.H    AMT.H    AMT.H    AMT.H    AMT.H
EINH.NOT.      J        J        J        J        J        J        J        J
-BETRAG        1        1        1        1        1        1        1        1
-INKREMENT    VF       VF       VF       VF       VF       VF       VF       VF
VAR. NOT.      J        J        J        J        J        J        J        J
-BETRAG        1        1        1      100        1      100        1        1
-INKREMENT    VF       VF       VF       VF       VF       VF       VF       VF
MAKLER       390      880      296      659      801      800      265      299
DSK                                       1)                 2)
BOSS-AB 16.08.93 01.09.93 05.04.93 08.03.93 01.07.93 12.07.93 19.07.93 02.08.93
STOP-LOSS/BUY  J        J        J        J        J        J        J        J
L.H-TAG

1) Löschen des Eintrags „DSKM“
2) Löschen des Eintrags „SSKM“
```

Figure 15: Master data for WKN 604843 – page 2

WKN 877355 - SMITHKLINE BEECH. LS-0625

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  1 ---
877355  SBE               SMITHKLINE BEECH. LS-0625            AKV  ST

VERWAHRMOEGL/ART  DBC-AUSLAND,LIEFERB  COURTAGE-KLASSE     AKTIEN O.DAX-30-WERT
EINHEIT NOTIZ                     ST  INDEX-KENNZEICHEN
DEPOTWAEHRUNG                     LS  ZULASSUNG/STATUS                DATUM
ABRECHNUNGS-WRG                  EUR  BL            TAG 1. NOTIERUNG 26.01.1998
BOEGA-ABRECHNUNGS-WRG            EUR  BR            TAG 1. NOTIERUNG 14.05.1998
ERSATZPARITAET                        DD            TAG 1. NOTIERUNG 14.05.1998
KL.HANDELB.EINH.                   1  FF            TAG 1. NOTIERUNG 14.05.1998
NENNW.ZUM STUECK              0,0625  HB            TAG 1. NOTIERUNG 01.04.1992
KZ OHNE NENNWERT                      HA            TAG 1. NOTIERUNG 14.05.1998
RECHN.NENNWERT BEI                    MC            TAG 1. NOTIERUNG 14.05.1998
NENNWERTL.ST-AKT.                     ST            TAG 1. NOTIERUNG 19.05.1998
                                      XETRA
                                      EUREX  N
WARRANT-SEGMENT
INH/NAMENSPAPIER        NAMENSPAPIER  BOEGA         FREIGEGEBEN  AB 04.12.1992
HEIMAT-/AUSLANDSBOERSE           EUL      GUELTIG AB 31.12.1998 BIS 9999999999
```

Figure 16: Master data for WKN 877355 – page 1

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  2 ---
877355  SBE               SMITHKLINE BEECH. LS-0625            AKV  ST
             BL       BR       DD       FF       HB       HA       MC       ST
MARKT        FV       FV       FV       FV       FV       FV       FV       FV
EINH.NOT.     J        J        J        J        J        J        J        J
-BETRAG       1        1        1        1        1        1        1        1
-INKREMENT   VF       VF       VF       VF       VF       VF       VF       VF
VAR. NOT.     J        J        J        J        J        J        J        J
-BETRAG       1        1        1        1        1      100        1        1
-INKREMENT   VF       VF       VF       VF       VF       VF       VF       VF
MAKLER      390      880      296      659      801      800      265      299
DSK
BOSS-AB 26.01.98 14.05.98 14.05.98 14.05.98 01.07.93 14.05.98 19.07.93 19.05.98
STOP-LOSS/BUY  J        J        J        J        J        J        J        J
L.H-TAG
```

Figure 17: Master data for WKN 877355 – page 2

WKN 900304 - CHINA CONS.HLDGS

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  1 ---
900304  CIH               CHINA CONS.HLDGS   AD-,30            AKV  ST

VERWAHRMOEGL/ART  DBC-AUSLAND,LIEFERB  COURTAGE-KLASSE     AKTIEN O.DAX-30-WERT
EINHEIT NOTIZ                     ST  INDEX-KENNZEICHEN
DEPOTWAEHRUNG                     AD  ZULASSUNG/STATUS                DATUM
ABRECHNUNGS-WRG                  EUR  BL           TAG 1. NOTIERUNG 13.02.1998
BOEGA-ABRECHNUNGS-WRG            EUR  BR           TAG 1. NOTIERUNG 23.10.1996
ERSATZPARITAET                        DD           TAG 1. NOTIERUNG 23.10.1996
KL.HANDELB.EINH.                   1  FF           TAG 1. NOTIERUNG 23.10.1996
NENNW.ZUM STUECK                 0,3  HB           TAG 1. NOTIERUNG 08.07.1997
KZ OHNE NENNWERT                      HA           TAG 1. NOTIERUNG 23.10.1996
RECHN.NENNWERT BEI                    MC           TAG 1. NOTIERUNG 16.09.1998
NENNWERTL.ST-AKT.                     ST           TAG 1. NOTIERUNG 14.05.1996
                                      XETRA        TAG 1. NOTIERUNG 12.10.1998
                                      EUREX  N
WARRANT-SEGMENT
INH/NAMENSPAPIER         NAMENSPAPIER  BOEGA         FREIGEGEBEN  AB 23.04.1996
HEIMAT-/AUSLANDSBOERSE            AAS      GUELTIG AB 31.12.1998 BIS 9999999999
```

Figure 18: Master data for WKN 900304 – page 1

```
W S S ------------ ANZEIGE STAMMDATEN BOERSE -------------------  SEITE:  2 ---
900304  CIH               CHINA CONS.HLDGS   AD-,30            AKV  ST
              BL       BR       DD       FF       HB       HA       MC       ST
MARKT         FV       FV       FV       FV       FV       FV       FV       FV
EINH.NOT.      J        J        J        J        J        J        J        J
-BETRAG        1        1        1        1        1        1        1        1
-INKREMENT    VF       VF       VF       VF       VF       VF       VF       VF
VAR. NOT.      J        J        N        J        J        J        J        J
-BETRAG        1        1        1        1        1        1        1        1
-INKREMENT    VF       VF       VF       VF       VF       VF       VF       VF
MAKLER       390      880      296      659      801      800      265      299

BOSS-AB 13.02.98 23.10.96 23.10.96 23.10.96 08.07.97 23.10.96 16.09.98 14.05.96
STOP-LOSS/BUY  J        J        J        J        J        J        J        J
L.H-TAG
```

Figure 19: Master data for WKN 900304 – page 2

6.6 Reports

The following section lists the reports required for simulation which will be made available to participants by default. Reports are listed by market segment and system, including the corresponding report type.

6.6.1 Report Types

The following types of reports will be used during simulation:

Type	Description
CA spool	The CA Spool will exclusively be available to participants by way of online inquiry. To avoid any confusion of printouts with production files, participants will not be able to print the CA Spool content. Participants analysing the CA Spool data will need to use special access parameters.
Data carrier	All data carriers used in production will also be available to participants during simulation. The parameters for individual transfer jobs will be set up together with the participants in the course of connection.
Print files	There will generally be no print jobs available to participants in the MVS environment of the Year 2000 Simulation. In the course of connection, participants can request the transmission of special print files by stating the job parameters. During simulation, files will be transferred only if the respective participant has explicitly requested the print files.
Printed lists / reports	Printed lists and reports which are deemed necessary for the execution of simulation will be automatically distributed to participants. Printing and dispatch will be handled via Eurocom.

Table 14: Simulation report types

6.6.2 Cash Market

System	Description	ID
BOEGA	Settlement note data carrier	Various
Xetra®	Fee Overall Summary	CB050
Xetra®	Fee Statement	CB060
Xetra®	Daily Quote Maintenance	TC530
Xetra®	Daily Order Maintenance	TC540
Xetra®	Daily Trade Confirmation	TC810
Xetra®	Daily Open OTC Maintenance	TC820

Table 15. Standard reports for the cash market segment

6.6.3 Derivatives Market

System	Description	ID
Eurex®	Position Detail	CB010
Eurex®	Give-up Trade History	CB130
Eurex®	Accepted Give-Up Trades	CB140
Eurex®	Take-up Trade History	CB150
Eurex®	Accepted Take-up Trades	CB160
Eurex®	Daily Security Movement and Coverage	CD020
Eurex®	Daily Exercise and Assignment Summary	CE070
Eurex®	Option on Futures Exercise / Assignment Summary	CE071
Eurex®	Pending Delivery	CE080
Eurex®	Settled Delivery	CE100
Eurex®	Delivery List Sale	CE110
Eurex®	Delivery List Buy	CE111
Eurex®	Daily Quote Maintenance	TC530
Eurex®	Daily Order Maintenance	TC540
Eurex®	OTC Block Trade Maintenance	TC545
Eurex®	Open Order Detail	TC550
Eurex®	Daily Trade Confirmation	TC810

Table 16. Standard reports for the derivatives market segment

6.6.4 Clearing

System	Description	ID
LION	LION delivery list	KV209
CASCADE	Settlement list 1st SDS, 2nd SDS, STD	PU05
CASCADE	List of valid instructions	KV158
CASCADE	List of instructions not accepted for disposition	KV157
CASCADE	Change history instructions in instruction status	KV132
CASCADE	List of instructions entered by counterparties	KV102001
CASCADE	List of deleted entries in instruction or entry status	KV102003
CASCADE	List of historical instructions	KV102004
OLGA II	Pending items list	OD332
KADI	Personalised cover letter – pending income items	KD111
KADI	Personalised cover letter – *Sondpro*	KD206
KADI	Personalised journal – *Sondpro* (pending)	KD118
KADI/KV-Geld	Daily cash statement	KV108

Table 17. Standard reports for the clearing segment