X-pand into the Future

e u r e x *circular 059/02*

Date: Frankfurt, 19 July, 2002
Recipients: All Eurex members and vendors
Authorized by: Jürg Spillmann

Eurex Release 6.0 Documentation

Related Eurex Circulars: 041/02, 044/02

Contact: Functional Member Readiness: Tel. +49 (0)69-21 01-17 00

Content may be most important for:	**Attachments:**
➲ All Departments	1. Eurex Release 6.0 Functional Release Notes 2. Eurex Release 6.0 Technical Release Notes 3. Modification Notes – VALUES API Eurex Release 6.0 / GATE 3.1

You will find attached the Final versions of the Functional and Technical Release Notes for Eurex Release 6.0 (see Attachments 1 and 2).

The Functional Release Notes have no major changes to the information provided in the Preliminary version and modifications are principally editorial or for clarification.

The Technical Release Notes contain a number of changes to the Preliminary version, including :

- A statement on the automatic conversion of Release 5.0 Profiles for Release 6.0
- Details of the dynamic allocation of Broadcast Streams and selected Public Broadcast Stream Groups
- An increase in the length of the 'days to expiration' field in the FPTHEA file
- The timeline for the distribution and installation of the Release 6.0 software

In addition, the Programming version of the Member Front End Development Guide for Eurex Release 6.0 has now been published on our web-site "www. eurexchange.com" at the location 'Market place > programming to Eurex'. The associated Modification Notes (Attachment 3) have been updated to reflect the changes introduced since publication of the Planning version.

The GATE 3.1 Overview and Call Interface documents have not changed since they were published in May, 2002, and they can be regarded as the Final versions.

Eurex Deutschland
D-60485 Frankfurt am Main
www.eurexchange.com

Functional Member Readiness
Tel. +49-69-2101-1700
Fax +49-69-2101-1701

Alternative
Tel. +49-69-9770-1700
Fax +49-69-9770-1701

Management Board:
Rudolf Ferscha (CEO), Jürg Spillmann,
Daniel Gisler, Thomas Lenz,
Michael Widmer

Eurex Release 6.0

Final Functional Release Notes

© Eurex 2002

All proprietary rights and interest in this publication shall be vested in Eurex Administration and Management (”Eurex”) and all other rights including, but without limitation, patent, registered design, copyright, trade mark, service mark, connected with this publication shall also be vested in Eurex.

Whilst all reasonable care has been taken to ensure that the details contained in this publication are accurate and not misleading at the time of publication, no liability is accepted by Eurex for the use of information contained herein in any circumstances connected with actual trading or otherwise. Neither Eurex, nor its servants nor agents, is responsible for any errors or omissions contained in this publication which is published for information only and shall not constitute investment advice. This brochure is not intended for solicitation purposes but only for the use of general information.

All descriptions, examples and calculations contained in this publication are for guidance purposes only and should not be treated as definitive. Eurex reserves the right to alter any of its rules or contract specifications, and such an event may affect the validity of information in this publication.

® Eurex is a registered trademark

Modifications compared to Eurex 6.0 Preliminary Functional Release Notes

Chapter	Nature of Change	Comment
	no major changes were introduced, all changes are principally editorial or intended for clarification	

Table of Contents

1	**General Information**	**5**
2	**Functional Changes**	**6**
2.1	**Introduction of Delta-Neutral Trading Products**	**6**
2.1.1	DNTP Set-up, Parameters and Restrictions	6
2.1.2	DNTP Trading Overview	7
2.1.2.1	DNTP Product Assignment	8
2.1.2.2	Delta Calculation	8
2.1.2.3	Future Fixed Price Calculation	8
2.1.2.4	Round Lot Definition	9
2.1.2.5	Future Size Calculation	9
2.1.2.6	Delta-Neutral Trading Schemes	10
2.1.2.7	DNTP Order and Quote Validations	10
2.1.2.8	DNTP Matching and Posting	12
2.1.2.9	DNTP Confirmations and Broadcasts	12
2.1.2.10	DNTP Market Making	13
2.1.3	DNTP Position Maintenance and Clearing	14
2.1.4	DNTP Fees	14
2.1.5	DNTP GUI Change Summary	15
2.1.6	DNTP Report Change Summary	16
2.1.6.1	New Report: Daily DNTP Trade Report (RPTTC820)	16
2.2	**Interest on Cash Margin**	**18**
2.2.1	Interest Rate Definition	18
2.2.2	Interest Calculation	18
2.2.3	New Report: Monthly Interest (RPTCD230)	19
2.3	**Partial Position Transfer with Cash Amount**	**20**
2.3.1	Position Transfer Fees	20
2.3.2	Reporting and AWV-Reporting	20
2.3.3	Cash Transfer	21
2.3.4	New Payment Cycle	21
2.4	**Removal of Wertpapierkennnummer (WKN)**	**21**
2.5	**Performance Measurements for Permanent Quotation in Options**	**22**
2.5.1	Market Maker Fees and Refunds	22
2.5.2	Parameters used for Permanent Quotation Performance Measurement	22
2.5.3	Permanent Quotation Measurement	23
2.5.4	Daily Coverage compared to Daily Obligation	23
2.5.5	Monthly Coverage compared to Monthly Obligation	24
2.5.6	Automatic Refund Granting	25
2.5.7	Fee Refund Calculation	25
2.5.8	New Report: Permanent Quotation Measurement (RPTTD955)	26
2.6	**Volatility Interrupt for Price-Time Matched Futures**	**27**
2.6.1	Limitations	27
2.6.2	Volatility Interrupt Processing	27
2.6.3	Triggering Condition	28

2.7 String Search Facility 29
2.8 New Raw Data Reports 30
3 Window and Report Change Description - Summary 31
3.1 @X-ceed Trading GUI - Window Flow 31
3.2 @X-tract Clearing GUI - Window Flow 32
3.3 Modified Windows of @X-ceed Trading GUI 34
3.3.1 Menu Item “Market Information“ 34
3.3.2 Menu Item “Trading“ 36
3.3.3 Menu Item “Own Menu“ 38
3.3.4 Menu Item “OTC“ 39
3.3.5 Menu Item “Trading Support“ 40
3.3.6 Menu Item “Settings“ 41
3.3.7 Auxiliary Windows 41
3.4 Modified Windows of @X-tract Clearing GUI 43
3.4.1 Menu Item “Trade Management“ 43
3.4.2 Menu Item “Cash“ 44
3.4.3 Menu Item “Info“ 44
3.4.4 Menu Item “CSD“ 45
3.4.5 Menu Item “Settings“ 46
3.4.6 Auxiliary Windows 46
3.5 Report Change Summary 47
4 Appendix A – Eurex Functional Documentation 53
5 Appendix B – Glossary of Terms and Abbreviations 54

1 General Information

This document comprises the "Functional Release Notes" for Eurex Release 6.0.

The functional focus of Eurex Release 6.0 is the introduction or enhancement of the following features:

- Introduction of delta-neutral trading products (section 2.1)
- Interest on cash margin (section 2.2)
- Partial position transfer with cash amount (section 2.3)
- Replacement of "Wertpapierkennnummer" (WKN) with ISIN (section 2.4)
- Market maker performance measurements for permanent quotation in options (section 2.5)
- Volatility interrupt for price-time matched futures (section 2.6)
- String search facility for the GUIs (section 2.7)
- Introduction of new raw data reports (section 2.8)
- GUI and report enhancements (section 3)

For details about the enhanced trading and clearing GUI functionality, please refer to the updated “Eurex Trading User Guide” and “Eurex Clearing User Guide” for the enhanced GUI versions. These guides will be published in a simulation version in September 2002.

A list of new and updated functional member documentation is attached in Appendix A.
A simulation version of the documentation will be provided in September 2002; the final production versions will be available in October 2002.

Technical aspects of Eurex Release 6.0 are described in the associated document "Technical Release Notes" for Eurex Release 6.0.

For changes relating to VALUES API, please refer to the separate VALUES API documentation.

Please note that in this document the term "Eurex Release 6.0" refers to the electronic system that serves both Eurex and EEX organizations.

2 Functional Changes

The functional changes introduced with Eurex Release 6.0 are outlined in the following sections.

2.1 Introduction of Delta-Neutral Trading Products

Financial institutions usually offer a variety of option products to their clients, which requires a strategy to hedge the resulting risk exposure of the institution.

Most Eurex members use risk exposure hedging schemes like delta hedging.

The delta (Δ) of an option is defined as the rate of change of its price with respect to the price of the underlying asset. Delta hedging involves creating a combination position with a delta close to zero, called a “delta-neutral” position.

One variation of delta-neutral trading was introduced with Eurex Release 5.0--the OTC volatility trade facility. Members have to request the future leg of a "delta-neutral" or "volatility" trade using the *OTC Vola Trade Entry* window. However, trading this strategy involves an OTC transaction without central order book price determination.

With Eurex Release 6.0, technical changes are introduced in the Eurex system that will support products for simultaneous trading of related option and future contracts to create delta-neutral positions for a member. Such products are referred to as "Delta-Neutral Trading Products" (DNTP) in the following sections.

The introduction of DNTPs enables members to execute a delta-neutral trade involving a future and an option using a central order book.

The main advantage of Eurex DNTPs is the order book based simultaneous execution of both legs of the combination, ensuring the creation of a delta-neutral position. If both legs of the combination are ordered separately in a volatile market, there is always the risk that one leg is not available when the other leg is matched.

DNTP details and the schedule for the introduction of DNTPs will be published in a separate circular.

2.1.1 DNTP Set-up, Parameters and Restrictions

DNTPs are synthetic products set up as independent products to allow the simultaneous delta-neutral trading of a future and an option. The DNTP itself has no relation to the order books of its component future and option legs. The future and the option are existing Eurex products, which are linked either by the future being the underlying of the option (e.g. OGBL / FGBL), or by the future and the option having the same underlying (e.g. ODAX / FDAX).

For DNTPs, the prices and the quantities of the future and the option legs are selected so that the combined delta of the combination trade is close to zero.

The newly set up DNTP is used for trading purposes only. DNTPs may be traded only on those days when the component products of both legs are tradable.

The DNTP future leg used for set-up is the front month contract, i.e. the contract with the shortest time to maturity. Several business days before its expiration date, the future contract is rolled automatically to the next maturity date by the Eurex system. The exact rolling period is configured separately for each DNTP.

DNTP products are tradable latest until one business day before the expiration of the related option leg series with the same maturity.

Trading-related parameters such as market maker licenses, quote spreads etc. are defined individually for every DNTP.

2.1.2 DNTP Trading Overview

Eurex DNTPs can be seen as a special type of inter-product combination of two standardized products, an option and a future. The option and its related future are the legs of the DNTP combination. There are some differences to regular combination trading, such as the following:

- DNTPs are defined using standardized option products. Therefore, a DNTP has the same series as its related option product. All orders and quotes for DNTP series are priced based on the price of the related option series and not on the price of the combined trade. For the future leg, the pricing is based on a current but fixed price level of the related future contract.
- For a DNTP order or quote, the associated option series has to be selected and a price as well as the requested amount of option contracts must be entered. The future leg of the DNTP trade is then filled accordingly by the system.
- For the future there is only one contract available, generally the contract with the next expiration date, which is rolled to the back month contract some days prior to the expiration date of the initially available front month contract. The corresponding fixed price of the future is calculated by the system and cannot be influenced by the trader (see chapter 2.1.2.3). The calculated price is called the "future fixed price", which is defined as the price for the future leg for which the DNTP orders and quotes can be matched.
- The quantity of futures involved in such a DNTP trade, called "future quantity" or "future size", is calculated by the system so that a near delta-neutral product spread trade is the result. Thus, the future quantity is the number of futures that must be traded in combination with the quoted quantity of options to achieve the delta-neutral trade.

For the DNTP-related future leg, a "trigger" for the re-calculation of the future fixed price and a "price range", a percentage between strike prices in which the future fixed price remains unchanged, are defined when the DNTP is set up. The trigger is either the market price of the future contract itself or the market price of the common underlying. The system re-calculates the future fixed price when the trigger moves out of the defined price range.

2.1.2.1 DNTP Product Assignment

Since DNTPs are regular Eurex products, they are assigned to members and traders.

A member can only be assigned to a DNTP if he is assigned to both related products, i.e. the option leg and the future leg. A member product assignment cannot be withdrawn for a DNTP leg if the member is still assigned to the DNTP.

DNTPs also require a trader product assignment. A trader can be assigned to a DNTP even if he is not assigned to the related products. There is no relation between the maximum order quantity of a DNTP and the maximum order quantities of its related leg products. Only the maximum order quantity defined for the DNTP itself is validated for order and quote entry.

A market maker in a DNTP must be a market maker for the related option product. In other words, a market maker cannot own the license for the DNTP if he does not own the license for the related option. On the other hand, if a member is registered for market making in the related option, this does not imply a market maker license for the DNTP. When the market maker license for the related option product is withdrawn, the market maker license for DNTP is also withdrawn.

2.1.2.2 Delta Calculation

On the basis of the fixed future price and the option order limit price, the system calculates and publishes the option delta.

The delta of the DNTP option leg is calculated using the Black-76 option pricing model. Based on the option order limit price and the adjusted future fixed price, the Black-76 model provides the implied volatility of the option underlying. Given the implied volatility and the future delta, the corresponding call or put deltas are calculated for the DNTP.

The delta of index futures corresponds to the last settlement price of the related future divided by the underlying close price.

Within the Eurex system, delta is represented by a rounded three decimal digit precision number. The absolute value of delta is used to calculate the size of the future. For display purposes and for broadcasting, a rounded unsigned three decimal digit precision representation is used, e.g. "0.123".

Once the deltas are calculated, the resulting relation of the option contract quantity to the future contract quantity is determined. This relation is the DNTP hedge ratio. The number of future contracts (future size or future quantity) needed to establish the delta-neutral trade with a given option trade quantity is calculated using this hedge ratio. The calculation of the hedge ratio is shown in chapter 2.1.2.5.

2.1.2.3 Future Fixed Price Calculation

The automatic price fixing of the future contract depends either on the current market price of the future leg itself or on the price of the common underlying of the DNTP. It is always fixed at a valid strike price of the related option.

Depending on the type of the option, the future fixed price for the DNTP future leg is adjusted in order to represent a relevant underlying forward price in the Black-76 model.

If the future leg market price moves out of the predefined price range, a DNTP-specific state transition is triggered, which causes the deletion of all existing orders and quotes for the DNTP, and the re-calculation of the future fixed price of the DNTP. The frequency of these state transitions depends on the volatilities of the future leg and the common underlying, the price range and the range between option strike prices.

2.1.2.4 Round Lot Definition

Round lots, as defined for DNTPs, cause orders, quotes, quote requests and cross requests to be accepted by the Eurex system only if the involved DNTP quantities are integer multiples of the DNTP option leg round lot. Otherwise, the transaction is rejected with an error message. The round lots are defined for the DNTP exclusively and do not apply to the related option or future legs.

The future size is calculated based on the future size for the minimum round lot option quantity, which is rounded to the nearest integer using standard (not Gaussian or banker's) rounding rules. For multiples of option round lots the respective multiples of this rounded future size are used: Assuming a delta-neutral trade for a minimum round lot of 100 options would result in a calculated future quantity of 33.434, with a rounded future size of 33. If 1000 options are traded, then the future size is 330 and not 334.

2.1.2.5 Future Size Calculation

The calculation of the delta and the corresponding future size is straightforward for limit orders and quotes. For market orders, the delta and future size is not calculated before the market order is matched and a trade price is given.

The future size is the quantity of the futures needed to create the delta-neutral position for an existing option trade quantity. This future size is calculated for the hedge relationship between option and future.

The hedge relationship is defined as

$$Q_O \cdot TU_O \cdot CV_O \cdot \Delta_O/\Delta_F = Q_F \cdot TU_F \cdot CV_F$$

where

Q_O	=	traded option quantity
Q_F	=	traded future quantity (the future size for hedging)
TU_O	=	option trading unit (the number of underlyings corresponding to the option, which equals "1" for options on indices or options on futures)
TU_F	=	future trading unit (usually equals "1")
CV_O	=	option contract value (equals option tick value divided by option tick size)

CV_F = future contract value (equals future tick value divided by future tick size)

Δ_O/Δ_F = calculated option delta

Solving the hedge relationship for the future size Q_F results in

$$Q_F = Q_O \cdot \Delta_O/\Delta_F \cdot (TU_O \cdot CV_O) / (TU_F \cdot CV_F) = Q_O \cdot HR$$

with HR being the hedge ratio.

2.1.2.6 Delta-Neutral Trading Schemes

With delta being positive for call options and negative for put options, there are four different delta-neutral trading schemes, depending on the original DNTP order:

Original DNTP Order	Resulting Option Position	Resulting Future (Hedging Position)
Buy Call	Buy (long) Call	Sell (short)
Sell Call	Sell (short) Call	Buy (long)
Buy Put	Buy (long) Put	Buy (long)
Sell Put	Sell (short) Put	Sell (short)

The option positions are created with the traded DNTP quantity and the traded DNTP price. The related future positions are created with the calculated future size and future fixed price. After matching, the resulting position transactions in option and future contracts may have different prices than those of the legs in the current market.

2.1.2.7 DNTP Order and Quote Validations

For DNTP order and quote handling, additional validations and restrictions are provided by the Eurex system.

Several existing option validations apply to DNTPs:

- As with options, no stop orders or one-sided quotes can be entered for DNTPs. Orders can be entered in G1/G2 accounts (pre-designated and designated give-up orders). The restricted order types Immediate-or-Cancel (IOC) and Fill-or-Kill (FOK) are allowed.
- Market Supervision trading on behalf of a member is possible for DNTPs.
- Market orders for DNTPs are protected according to the same rules applicable for other options. They are not matched below or above the worst available quote in the order book, unless the order book contains limit orders which are executable against each other.
- For price reasonability checking of DNTPs the same rules as for other options are used.

- Market maker license, member assignment, trader assignment and the corresponding maximum order quantity are validated for DNTPs the same way as for other options.
- Only market makers are allowed to enter quotes, as for options. They are obligated to enter a quote whenever other traders enter quote requests (“quotation on request”).
- As for other options, the DNTP order book of a member can be cleared by a trade interrupt initiated by Market Supervision. If the deleted orders and quotes belong to the best inside market, the inside market is refreshed and the delta and the corresponding future size is re-calculated.

The following additional validations are introduced for DNTPs:

- DNTP orders and quotes contain the newly introduced future fixed price. The existing *Order Entry*, *Quote Entry* and *Mass Quote Entry* window layouts are enhanced by a new field for the future fixed price. When DNTP orders or quotes are entered with an invalid future fixed price, the transactions are rejected with an error message.
- DNTP orders are only valid for the day of entry. The orders can be cancelled manually by the trader or automatically by the system, e.g. when the future price is re-fixed or at the end of the trading session. Only the GFD validity is allowed for DNTPs, otherwise an error message is returned.
- DNTP orders and quotes can only be entered when the product and its component legs are in a continuous trading phase, i.e. states "trading" or "fast market". If the DNTP or any of its legs are in another state than trading or fast market, the transactions are rejected. All orders and quotes are deleted when a new future price is fixed or when the market is closed. During the pre-trading netting phase (when the first future fixed price is set) the order book is empty, since no orders or quotes can be entered outside the trading session.
- DNTP orders and quotes can only be entered for DNTP-specific round lots and multiples thereof. If the entered quantity is not an integer multiple of the round lot, the transaction is rejected.
- Combination orders and combination quotes cannot be entered for DNTP. Combination transactions involving DNTP are rejected with an error message.
- For limit order and quote entries, the entered DNTP price is used to establish the delta and the corresponding future size. For options out of the money, the calculated delta can be close to zero, resulting in a corresponding future size close to zero. In this case a match at this price would create a null future size position. A DNTP order or quote with a null future size position does not make sense, it is rejected by the system with an error message.
- Depending on the individual product parameters, the calculated future size may exceed the limit of 9,999. In this case, the order or quote is rejected with an error message.

2.1.2.8 DNTP Matching and Posting

Matching rules for DNTP are similar to option matching rules, but combination transactions are disabled. Other differences are:

- After an order or quote entry, or after a match, the delta and the future size are re-calculated. The result of a match is not a position in the DNTP itself. The system automatically generates a position in the corresponding option series and a position in the related future contract. The corresponding position transactions are posted into the respective position accounts, creating a delta-neutral total position.
- The calculated deltas and future sizes are included in the broadcast of the inside market price information.
- No opening price will be posted for DNTP after the first trade. No daily high and low prices are maintained. The last trade prices and last trade quantities will be posted after each future price refixing.

All orders and quotes in DNTP contracts are priced according to the price of the related option on the basis of a current but fixed price level of the related future contract.

Unique trade numbers are generated for the option part of the trade and the future part of the trade. The order numbers are identical for both the option and the future position transactions. Therefore, the order number is the common identifier of both DNTP legs.

During the matching of orders, the options delta and the future size are re-calculated for the match price, as this match price can vary from the original order limit. The calculated options delta for the match price is shown on the RPTTC820 "Daily DNTP Trade Report".

Trades are posted with the new trade type "D" and with the existing trade transaction type "000".

2.1.2.9 DNTP Confirmations and Broadcasts

The future traded quantity for DNTP is accumulated by series and broadcast by the DNTP Inside Market broadcast stream. The number of trades of options and futures are identical, they are distributed in the DNTP Inside Market broadcast as the DNTP number of trades.

For each DNTP trade only one Execution Confirmation Private Broadcast is sent to both trade counterparts. In addition to the trader references it contains the DNTP trade information, the series ID, the buy/sell code, the traded quantity and trade price for the option side, the order number and the related option trade number. The Execution Confirmation Private Broadcast does not contain the delta, the future trade quantity, the future trade price or the future trade number.

There are no layout changes in the Execution Confirmation Private Broadcast.

For each DNTP trade two Trade Confirmation Private Broadcasts are sent to the respective trade counterparts. Additionally, the Trade Confirmation Private Broadcast contains the new trade type "D" and information about the created positions of the related option and future legs. On reports, the Order Combination Type is displayed as "DNT", which allows DNTP trades to be identified.

There are no layout changes in the Trade Confirmation Private Broadcast.

Every time a DNTP order or quote is entered, fully or partially matched, modified or deleted, an Order Confirmation Private Broadcast or a Quote Confirmation Private Broadcast is sent. The broadcast messages are used to refresh the *Own Order Overview* or *Own Quote Overview* GUI windows.

DNTP matches can cause the trade price to deviate from the original order or quote price. Only the delta corresponding to the original order or quote price and the future size associated with the remaining quantity is sent in the Order Confirmation or Quote Confirmation broadcasts.

With the introduction of Eurex Release 6.0, the *Own Order Overview* window now displays the future fixed price, the calculated delta and the future size for the remaining order quantity. This data is received from the enhanced Order Confirmation Private Broadcast.

The *Own Quote Overview* window now displays the futures fixed price, the calculated delta and the future size associated with the remaining quote quantity for bid and ask sides. This data is received from the enhanced Quote Confirmation Private Broadcast.

The Inside Market broadcast comprises all market relevant information provided by the Eurex system. For DNTP, the Inside Market broadcast updates are generated using the following set of rules:

- For a DNTP, the calculated delta and the resulting future size is calculated and published for the best bid and best ask inside market. The delta is not calculated for the last trade price, best order price or best quote price.
- Future fixed price movements are continuously updated for Inside Market. Each future fixed price movement resets the last trade prices and last trade quantities.
- Each DNTP match causes the total traded quantity for the future to be accumulated for the Inside Market information. The total traded quantity for the option and the total number of trades are also updated for the Inside Market.
- DNTPs do not have opening prices, closing prices, daily high or daily low prices.
- Every time the “best” Inside Market is changed for a series, the best bid delta, best ask delta and the corresponding future sizes are recalculated and broadcast to the members.
- The Inside Market broadcast stream has four new fields: (1) best bid delta, based on the best bid price; (2) best bid future size, based on the best bid quantity; (3) best ask delta, based on the best ask price and (4) best ask future size, based on the best ask quantity.

2.1.2.10 DNTP Market Making

For DNTP, no market maker performances are evaluated. If market makers fulfill their obligation for the related option, the fee discount applies to the original option trades and the option positions created by DNTP trades. However, if market makers do not fulfill their obligation for the option, there is no fee discount for option positions created by a DNTP trade, even if market makers fulfill their obligation for DNTP quote maintenance.

Permanent quotation is not offered for DNTPs (see chapter 2.5 for details).

2.1.3 DNTP Position Maintenance and Clearing

Matched DNTP trades create positions in the associated option and future legs only. There are no positions for the specific DNTP.

DNTPs are not used in any clearing or settlement activity. Only the positions in the future and in the option legs are used for clearing.

Margins for DNTP trades are calculated based on the positions held in the options and futures legs. Therefore, only the legs of a DNTP are relevant for margining.

Position maintenance is carried out independently for the resulting positions and not for the original DNTP. DNTP details for position maintenance are as follows:

- Option-specific and future-specific position adjustments for both legs of the DNTP are not provided. Adjustments have to be performed separately for both the option and future positions exactly as for trades in other Eurex products.
- Give-ups and take-ups are possible as for normal trades. A give-up by order or take-up by order is effective on the trades in both option and future legs.
- The day after a replacement of the DNTP future leg, the historical give-up and take-up by order is not possible because the respective leg of the former DNTP version no longer exists in the Eurex system. In this case, only the selected leg (option or future) is processed and a warning message is generated.
- Trade reversals are carried out separately for the option and future position transactions. Total trade volumes are adjusted accordingly, but no other Inside Market information is updated.

2.1.4 DNTP Fees

Fees for DNTP trades are determined according to the fees defined for the corresponding options and futures legs. Reporting of fees is also done for the legs only.

No specific DTNP trade fees are applied for DTNP trades. The corresponding trade fees of the related option and the related future apply to each position created. Thus, even though the trade fees are caused by activity in the DNTP, they are not attributed to the DNTP, but to the leg products. The synchronous transaction fees, as listed in the report RPTCB065, are calculated for the DNTP. These are the only fees directly relating to DNTPs.

2.1.5 DNTP GUI Change Summary

Due to the introduction of several additional product parameters for DNTP, several trading and clearing GUI windows are enhanced.

In the *Market Overview*, *Contract Overview*, *Own Order Overview* and *Own Quote Overview* windows, new columns show DNTP-specific product parameters.

The cumulative DNTP traded volume (equal to the corresponding option volume) and the cumulative DNTP future volume are maintained for every DNTP series. This information is displayed in the *Product Statistic Overview* window and in the *Contract Statistic Overview* window.

In general, the displayed volumes for the leg products show the volumes generated by DNTP activities. An exception is the online statistic for single contracts in the *Contract Statistic Overview* window, where the DNTP volume is shown as Inter-Product Spread (IPS) volume.

In all windows, the future size relates to the given quantity, e.g. order quantity or available best price quantity, and not to the round lot. The delta is always the option side delta. It is displayed as a positive value with three decimals. For DNTPs, no opening price, no closing price and no daily high or low prices are broadcast. The corresponding columns in the respective windows remain empty for DNTPs.

The *Order Entry*, *Fast Order Entry*, *Quote Entry*, *Mass Quote Entry*, *Order Maintenance* and *Last Order Maintenance* windows now have a new entry field for the future fixed price. All valid future prices compatible with the future tick size are accepted by the GUI. The value entered is compared to the current system value of the future fixed price. For all quantities of DNTP orders, quotes, quote requests and cross requests, the GUI proposes values compatible with the round lot of the DNTP. All quantities that are not a whole number multiple of the round lot are rejected by the system.

If these windows are called from an overview window, the value of the future fixed price is automatically provided; otherwise a future fixed price must be entered manually.

The recalculation of the future fixed price is part of a DNTP state transition. As with other state transitions, the GUI can be configured to indicate this event by an audio signal, which is done in the *Audio Configuration* window.

For details please refer to sections 3.3 and 3.4.

2.1.6 DNTP Report Change Summary

Some existing reports changed to include the new DNTP trade type and various DNTP related parameters. The following reports now include DNTP related information:

Report	Raw Data
Trading	
RPTTC530 - Daily Quote Maintenance	-
RPTTC540 - Daily Order Maintenance	-
RPTTC810 - Daily Trade Confirmation	**X**
RPTTD930 - Daily Trade Statistics	**X**
RPTTD970 - Trading Volume and Market Share – Options	-
Clearing	
RPTCB010 - Position Detail	**X**
RPTCB040 - Transaction Fee Summary	-
RPTCB130 - Give-Up Trade History	-
RPTCB140 - Accepted Give-Up Trades	**X**
RPTCB150 - Take-Up Trade History	-
RPTCB160 - Accepted Take-Up Trades	**X**
Other	
RPTCB065 - System Transaction Overview	-
RPTCB068 - Synchronous Transaction Mix	-
RPTTT125 - Trader Underlying Status	-

For details please refer to section 3.5.

2.1.6.1 New Report: Daily DNTP Trade Report (RPTTC820)

The total number of trades and volumes for DNTPs is displayed on the new report “Daily DNTP Trade Report” (RPTTC820), sorted by trader and account.

For each trader, per account and per matched delta-neutral trade, all positions created for the related option series and all positions created for the related future contract are listed for one business day. The original order number, the order type, the clearing member, the free format text fields and the calculated delta for the related option are displayed for each DNTP trade.

Both positions of the DNTP related option and future legs are shown. The trade number, the buy or sell code, the open or close code (identical for both), and the traded quantity and price are displayed for each position created.

At the end of the DNTP option series, and at the end of the DNTP future series, the report displays the cumulative trade quantities for the option and for the future.

An additional line is added after each transaction that is entered on behalf of the user by Eurex Market Supervision.

```
EUREX                                          DNTP DAILY TRADE REPORT                                          PAGE:       20
RPTTC820                                                                                                  AS OF DATE: 15-11-00
                                                                                                            RUN DATE: 15-11-00
DEVELOPMENT ONLY
EXCHANGE MEMBER: XYZFR  (1)                                (3)(4)   (5)     (6)  (7)
TRADER ID:       TRD001 (2)                  CONTRACT: C DDAX DEC 02   5200                                ACCOUNT: P1  (8)

                              OPTION SERIES     CALC.  B O                      ORD   CLG
TRN TIME  TRN ID  ORDER NO   FUTURE CONTRACT    DELTA  S C EXECUTED  TRD PRICE  TYP   MEMB   CUSTOMER    USR-ORDR-NO     TEXT
--------  ------ ---------- ------------------  -----  - - -------- ----------- ---  ----- ------------ ------------ ------------
11:24:04  000020 277163364 C ODAX DEC02 005200  0.140  S O      50      365.00  MKT  XYZFR First Order  ordrID750    TORDR32
          000021 277163364   FDAX DEC02                B O       7    5,500.0  MKT  XYZFR First Order  ordrID750    TORDR32
11:26:33  000024 277163427 C ODAX DEC02 005200  0.140  B O     200      367.00  LIM  XYZFR 2nd Order    ordrID763    TORDR35
          000027 277163427   FDAX DEC02                S O      28    5,500.0  LIM  XYZFR 2nd Order    ordrID763    TORDR35
12:18:44  000190 277169044 C ODAX DEC02 005200  0.159  B O     250      395.00  LIM  XYZFR 3rd Order    ordrID843    TORDR48
          000193 277169044   FDAX DEC02                S O      40    5,550.0  LIM  XYZFR 3rd Order    ordrID843    TORDR48
                                        ***TRANSACTION ENTERED BY EUREX ON BEHALF OF XYZFR***
12:20:43  000205 277169599 C ODAX DEC02 005200  0.160  B O     200      396.00  LIM  XYZFR 4th Order    ordrID866    TORDR55
          000207 277169599   FDAX DEC02                S O      32    5,550.0  LIM  XYZFR 4th Order    ordrID866    TORDR55

                         TOTAL OPTION BUY TRADES        3    TOTAL OPTION CONTRACTS BOUGHT         650
                                                       =====                                    =========
                         TOTAL OPTION SELL TRADES       1    TOTAL OPTION CONTRACTS SOLD            50
                                                       =====                                    =========
                         TOTAL FUTURE BUY TRADES        1    TOTAL FUTURE CONTRACTS BOUGHT           7
                                                       =====                                    =========
                         TOTAL FUTURE SELL TRADES       3    TOTAL FUTURE CONTRACTS SOLD           100
                                                       =====                                    =========
        TOTAL FOR PRODUCT
        =================

                         TOTAL OPTION BUY TRADES        3    TOTAL OPTION CONTRACTS BOUGHT         650
                                                       =====                                    =========
                         TOTAL OPTION SELL TRADES       1    TOTAL OPTION CONTRACTS SOLD            50
                                                       =====                                    =========
                         TOTAL FUTURE BUY TRADES        1    TOTAL FUTURE CONTRACTS BOUGHT           7
                                                       =====                                    =========
                         TOTAL FUTURE SELL TRADES       3    TOTAL FUTURE CONTRACTS SOLD           100
                                                       =====                                    =========
```

2.2 Interest on Cash Margin

As a preparation to enhance the Eurex functionalities regarding interest payments, the following changes are applied to the Eurex system with the introduction of Eurex Release 6.0.

The interest is calculated for every calendar day, including official holidays and weekends. The calculation is conducted at the end of the month, or on one of the first trading days of the following month.

Immediately after the monthly interest calculation is finished, i.e. on the same day, the calculated interest is posted to the clearing member cash account.

The clearing GUI window *Cash Account Detail Overview* shows the transaction details of the interest payments.

Details on interest paid on cash margins will be published in a separate circular.

2.2.1 Interest Rate Definition

The applicable interest rate is defined by Eurex Market Supervision. All valid Eurex currencies can earn interest, and the interest is denominated for each currency in the same currency as the cash balance earning the interest (i.e. EUR earns EUR interest, CHF earns CHF interest). There is one rate per Eurex currency, and the rate is valid for all clearing members.

An interest-free limit per currency can be defined by Eurex Market Supervision. Only the cash amount exceeding the interest-free limit is used to calculate interest payment.

2.2.2 Interest Calculation

Every trading day, at a predefined time, the Eurex system takes a “snapshot” of the clearing member cash balances. Only Eurex currencies are processed for the daily cash balance "snapshot".

By default, the last business day of the month is used for the monthly interest payment. After interest calculation, the interest is credited to the member accounts during the Eurex end-of-day batch of the same day. Calculation and payment of interest on cash margin is processed during the same end-of-day batch.

The daily interest is calculated based on the daily cash balance as follows:

$$DI_{(CM,Cur)} = IR_{(Cur)} \cdot (DB_{(CM,Cur)} - IF_{(Cur)}) \cdot D / D_Y$$

where

$DI_{(CM,Cur)}$	=	Daily interest per clearing member and per Eurex currency
$IR_{(Cur)}$	=	Interest rate per Eurex currency
$DB_{(CM,Cur)}$	=	Daily Cash Balance per clearing member and per Eurex currency
$IF_{(Cur)}$	=	Interest-free limit defined for every Eurex currency.

D = Number of days used in the interest calculation. Weekends and holidays are included in the interest calculation. The last daily cash balance before holidays, i.e. Friday's cash balance for weekends, is used as the basis for interest calculation of holidays. Therefore, this parameter is "3" if interest for a weekend is calculated. If the month end is Saturday, then interest is calculated for two days.

D_Y = Number of days in year (366 days are used in leap years)

The total interest per month is accumulated for every day of the month for which interest is calculated.

Interest payment cash flows are shown on the clearing GUI window *Cash Account Detail Overview*. There is no change to the existing window functionality.

The reports "Daily Cash Account Statement" (RPTCD010) and "Monthly Cash Account Statement" (RPTCD070) now include the new transaction type "230" for the earned interest.

2.2.3 New Report: Monthly Interest (RPTCD230)

Clearing members can receive the new "Monthly Interest Report" (RPTCD230), which is processed like other monthly reports except that no historical reports are available.

```
EUREX                                   MONTHLY INTEREST REPORT                              PAGE:          1
RPTCD230                                                                                  AS OF DATE: 2002-02-03
                                                                                         REQUEST DATE: 2002-02-03

CLEARING MEMBER: XYZFR XYZ BANK                                                                  CURRENCY: EUR

DATE        CASH BALANCE        INTEREST-FREE LIMIT  CALCULATION INTEREST ON   INTEREST RATE [%]   DAILY INTEREST
----------  ------------------  -------------------  -----------------------  ------------------  --------------
2002-01-01          100,000.00               30,000                70,000.00             2.12500            4.08
2002-01-02          150,000.00               30,000               120,000.00             2.12000            6.97
2002-01-03          200,000.00               30,000               170,000.00             2.11500            9.85
2002-01-04          250,000.00               30,000               220,000.00             2.11000           12.72
.                                                                                                             .
.                                                                                                             .
.                                                                                                             .

Total Interest                                                                                               80.33
=============================================================================================================

CLEARING MEMBER: XYZFR XYZ BANK                                                                  CURRENCY: CHF

2002-01-01          100,000.00               30,000                70,000.00             2.12500           85.58
2002-01-02        1,500,000.00               30,000             1,470,000.00             2.12000           85.38
2002-01-03        1,000,000.00               30,000               970,000.00             2.10500           55.94
2002-01-04        1,500,000.00               30,000             1,470,000.00             2.10500           84.78
.                                                                                                             .
.                                                                                                             .

Total Interest                                                                                              566.68
=============================================================================================================
```

This new report shows the interest earned each day and totals for the month. The report shows the ending balance, the applied interest rate, and the interest credited for each day, and in total, for the month. The fields *Cash Balance*, *Calculation Basis*, *Daily Interest*, and *Total Interest* are displayed with two decimal places. The *Interest Rate [%]* field is displayed with five decimal places.

The report is also available as a raw data file.

2.3 Partial Position Transfer with Cash Amount

The new transfer type "partial position transfer with cash amount" is implemented on the existing *Position Transfer Entry* window to allow the transfer of positions and related cash amounts between different members. The field *Cash Amount* is introduced to the *Position Transfer Entry* window. The corresponding new transaction type "107" (Partial Position Transfer with Cash Amount) enables members to use a standard Eurex function to transfer a position and a related cash amount.

Partial position transfers with cash amount can be entered and confirmed during the following trading phases: pre-trading, trading, fast market and post-trading full. The cash amounts entered are in the currency of the related product. The position and cash amount transfers are carried out between members using agent (A1) and proprietary (P1,P2) accounts. The entry, as well as the confirmations of partial transfers with cash amounts, can be done on behalf by Market Supervision.

If the position quantity remains empty for a chosen contract, only a cash amount can be transferred. A contract must be specified, even for a cash only transfer.

Three additional optional text fields *Customer, MIOrdNo* and *Text* are added to the *Position Transfer Entry* window. These fields allow members to enter customer-related details associated with the position transfer, e.g. a member internal order number or a comment. These fields are also displayed on the relevant reports, e.g. on the “Position Detail Report” (RPTCB010).

Additionally, with Eurex Release 6.0, multiple partial position transfers (with or without cash amounts) per contract and per day are possible between the same members.

Details and the schedule for the introduction of cash amount transfers will be published in a separate circular.

2.3.1 Position Transfer Fees

Fees can be set up and charged for this new type of position maintenance. These fees are charged to both members involved in the transfer. The existing fee type "104" (Position Adjustment Fees) is used.

Fees are calculated for the transfer itself, independent of the number of transferred contracts.

The fees for position transfers with cash amount are included in the position adjustment fees.

2.3.2 Reporting and AWV-Reporting

Cash amounts of the partial position transfer are reported by Eurex in the existing reports "Position Transfer Overview" (RPTCB030), "Member Exceptions – Part A: Positions" (RPTCB120) and "Daily Cash Account Statement" (RPTCD010). Monthly totals of the transferred cash amounts are not provided.

AWV-Reporting is mandatory when the AWV (German “Außenwirtschaftsverordnung”) applies: Transferred cash amounts between members have to be reported to Deutsche Bundesbank, according to AWV, in a product-specific manner, if at least one involved member complies with the AWV definition of a "member from a different country" (German "Gebietsfremder") or the underlying security is not issued in Germany.

Members are obliged to perform their own AWV-Reporting to Deutsche Bundesbank for their transferred cash amount. This is not done by Eurex.

Fees are reported by Eurex to Deutsche Bundesbank.

2.3.3 Cash Transfer

The cash amount related to the partial position transfer may be positive or negative. For the sending member, a positive amount indicates a debit transfer (German “Überweisung”), a negative amount indicates a credit transfer (German “Lastschrift”), and vice versa for the receiving member. All debit and credit payments are not netted, but totaled separately per clearing member, which creates up to two payments per clearing member and currency.

The currency used for the cash transfer is always the currency of the product for which the position transfer is carried out.

A limit for the transferable cash amount per currency and per single transaction is defined by Market Supervision in the *Exchange Rate Overview* window. A cash amount entered by the member is validated against the value defined by Eurex Market Supervision.

2.3.4 New Payment Cycle

Cash payments resulting from the new "partial position transfer with cash amount" are separated from the regular payments generated in the Eurex system. In the morning of the next business day, the cash debits and credits of the partial position transfer are sent in a new payment cycle to the LZB and the SNB. Outgoing payments for cash amounts (credits) are not booked before regular Eurex payments are complete, and before all amounts resulting from a position transfer with cash amount (debits) are received.

2.4 Removal of Wertpapierkennnummer (WKN)

With the introduction of Eurex Release 6.0, all financial instruments used in the Eurex system are identified by their International Security Identification Number (ISIN). As a consequence, no Wertpapierkennnummer (WKN) codes can be used.

Entering a WKN no longer result in a WKN to ISIN conversion in the following windows:

- *Collateral Security Detail* (Clearing GUI)
- *Security CSD Overview* (Clearing GUI)
- *OTC Basis Trade Entry* (Trading GUI)

Only the ISIN is accepted as input. The layout of the windows is the same.

2.5 Performance Measurements for Permanent Quotation in Options

According to the current definition of market maker obligations, market maker performance is measured in responses to dedicated quote requests only, called "regular quotation" in the following. Currently, the measured market maker performance not only depends on the market maker's quotation activity, but also on the existence of quote requests in the market. This means that without any quote requests, the market maker quotation activity has no effect on the measured performance.

With Eurex Release 6.0, the concept of "permanent quotation" is introduced as an alternative market making model for option products. The designated market making model for future products is not affected. A market maker refund is granted on the basis of the fulfillment of either obligations for permanent or regular quotation, depending on the model selected by the market maker for option products.

The regular quoting process is unchanged. The existing daily coverage calculation for designated market making, which allows manual bonus refunds, co-exists with the new permanent quotation measurement.

With Eurex Release 6.0, there is a new monitoring mechanism and a new member report for permanent quotation. Market maker fees depend on the measured degree of fulfillment of market maker obligations.

Market makers can choose the quotation model – either permanent or regular – per product. A change of market maker registration from regular to permanent quotation or vice versa for a product is only effective from the end of the current month on.

A market maker can change clearing members only once per month. In this case, the fee refund is divided "pro rata" based on the respective clearing volume of the involved clearing members.

Details and the schedule for the introduction of permanent quotation in options will be published in a separate circular.

2.5.1 Market Maker Fees and Refunds

Market maker fee refunds are granted automatically based on the selected regular or permanent quoting measurement. No new fee types are used for refunds resulting from permanent quotation. The existing fee types for regular quotation are used.

The calculation and granting of fee refunds takes place at the end of the month and depends on the monthly cleared volume, and on on product-specific and quotation type-specific parameters.

Calculated refund amounts are reported on the existing report "Market Maker Fee Adjustment Calculation" (RPTCB069) without any layout changes.

2.5.2 Parameters used for Permanent Quotation Performance Measurement

The permanent quotation performance is determined by two parameters: smallest size of quote necessary and largest bid/ask spread allowed. These parameters may differ from similar parameters for regular quotation. Three different parameter combinations are possible:

- The minimum size of quotes the market maker is obliged to quote permanently, in conjunction with the allowed maximum spread between bid and ask.
- Alternatively, a market maker can accept a reduced maximum spread in conjunction with a reduced minimum size to be quoted permanently.
- For the fast market product state, a special fast market maximum spread increment, which is added to the regular maximum spread, and an associated reduced fast market minimum size are defined. There is no additional adjustment to the reduced parameters during fast market.

The strike price window size defining an available set of strike prices for one product expiration that are the closest to the current underlying price is also set by Market Supervision. The strike price window varies during the business day, depending on the underlying price movements. For options on indexes, the underlying index price is used, not the future price used for theoretical price calculation.

Other parameters used for the permanent quotation evaluation are set up by Eurex Market Supervision. These parameters are described in sections 2.5.4 and 2.5.5.

2.5.3 Permanent Quotation Measurement

For each market maker, the daily and the monthly coverage using active "good" quotes is calculated for a selected set of series of those products registered for permanent quotation.

The selected series are defined by the current underlying price, which varies during the business day, and other parameters. The market makers are obliged to cover a specified percentage of the total product trading time for a number of series from the selected set.

The market maker must fulfill the required percentage on every business day of a month. Only a predefined number of violation days are tolerated if the total monthly coverage is fulfilled.

2.5.4 Daily Coverage compared to Daily Obligation

The daily coverage, $Q_{d,}$ is the daily total time covered by "good" quotes from the active market maker and it is added for all relevant series of a given product, e.g. all relevant expirations and all strikes from the strike price window. For a quoted strike to be "good", only the time when the strike is inside the strike price window is taken into account.

The bid or ask sizes of all quotes with a spread less than or equal to the maximum spread are accumulated and then checked against the minimum size. If both the accumulated bid size and the accumulated ask size are greater than or equal to the minimum size, the quoting time is considered "good" and is added to Q_d. Similarly, accumulated bid or ask sizes of all quotes with reduced spreads are checked against the reduced minimum size. If the reduced minimum size is covered, the quoting time is also considered "good".

Each time interval is added to Q_d only once per series and per member, even if there are more active quotes within the interval.

The daily obligation, $O_{d,}$ is defined as

$$O_d = 2 \cdot E \cdot S \cdot P_d \cdot R/100$$

On the expiration day, for options expiring during the day, the daily obligation, $O_{d,}$ is defined as

$$O_d = [\, 2 \cdot (E–1) \cdot S \cdot P_d + 2 \cdot S \cdot EXP_d \,] \cdot R/100$$

where

E = required number of product expirations to be quoted

S = required number of strike prices to be quoted

P_d = daily total product trading time in product states "trading" and "fast market"

R = required coverage being the defined minimum percentage of the product trading period (*daily coverage* for day, *monthly coverage* for month) to be covered by “good” quotes

EXP_d = remaining trading time of the expiring contract on the expiration day

The daily fulfillment, $F_{d,}$ is set to the value "1" if Q_d is greater than or equal to O_d, otherwise F_d is set to "0".

2.5.5 Monthly Coverage compared to Monthly Obligation

The monthly coverage, $Q_{m,}$ and the monthly obligation, O_m, are calculated using accumulated daily values

$$Q_m = \sum_{\text{d of month}} Q_d$$

$$O_m = \sum_{\text{d of month}} O_d$$

The monthly fulfillment, $F_{m,}$ is set to the value "1" if the following conditions are met:

$Q_m >= O_m$ and

$V <= V_{max}$ and

$TV >= RV$

where

V = number of days with violation of coverage (where $F_d = 0$)

V_{max} = maximum number of tolerated days with violation, as defined by Market Supervision

TV = Monthly total traded volume per member in the given product in the M1 and M2 accounts, with discounted mistrade volume in the M1 and M2 accounts, but without traded OTC volume

RV = The *required monthly volume* representing the total required monthly traded volume in all M accounts of the member

Otherwise, F_m is set to "0".

2.5.6 Automatic Refund Granting

For regular quoting, the existing automatic refund granting mechanism is unchanged. For permanent quoting, refunds are granted automatically based on the monthly fulfillment, F_m.

All registered products are evaluated at the end of the month for each member. The monthly coverage measurement results are used. The refunds are only granted for those products with the monthly requirement fulfilled, i.e. where F_m is "1".

Automatic fee refund granting is carried out immediately after the permanent quotation measurement is finished for the last business day of the measured month.

2.5.7 Fee Refund Calculation

With introduction of Eurex Release 6.0, the fee refund calculation distinguishes between products with regular quoting and products with permanent quoting for a given market maker.

Similar to regular quoting, a scale of fee reduction parameters is defined for each product depending on the on-exchange traded volume. Independent scales are defined for regular and permanent quoting.

The same algorithm is used for both regular quotation and permanent quotation measurements. The only difference is that quotation type-specific parameters are used. The fee refund for a market maker and a product is calculated only if the refund is granted for a given quotation type.

For a market maker, the monthly cleared product volume in accounts M1 and M2 are calculated. The total volume is reduced by the volume of mistrades in the M1 and M2 accounts. The refund is calculated using the sum of the refunds for specific volumes, as defined by the fee reduction parameter scale.

If OTC cleared volume or exercised volume is available in the M1 and M2 accounts, the refund for OTC cleared volume or exercised volume is weighted using the last fee reduction for normal trades as described above and is then added to the refund for normal trades.

Finally, the calculated refunds are divided pro rata per account (M1 and M2) for the specific M1 and M2 volumes. Similarly, if a market maker changes clearing members during the last month, the refunds are divided, pro rata, according to the ratio between cleared or exercised volumes with the involved clearing members.

This evaluation is carried out at the end of the month. The resulting refunds are considered as "negative fees" using fee type "100" for all cleared and OTC cleared volume refunds, and fee type "106" for exercised volume refunds.

The report “Market Maker Fee Adjustment Calculation” (RPTCB069) now distinguishes fee reduction factors for permanent and regular quotation. There are no changes in the report layout.

As for regular quotation measurement, calculation histories can be requested from Market Supervision.

2.5.8 New Report: Permanent Quotation Measurement (RPTTD955)

The daily report “Permanent Quotation Measurement” is provided after the permanent quotation measurement is finished. Cumulated monthly values are calculated only in the end-of-month batch.

This report contains daily quotation measurement values for each business day of the current month, up to the current day. “Month-to-date” totals are also available. The last report of the month contains additional fulfillment statistics, as shown below. A member must fulfill all required conditions to qualify for the fee refund.

The member report contains the statistics for all of the products registered for permanent quotation by the given market maker. This report is distributed to the respective market making exchange member only.

```
EUREX                                  PERMANENT QUOTATION MEASUREMENT                          PAGE:          1
RPTTD955                                                                                  AS OF DATE: 2001-01-31
                                                                                            RUN DATE: 2001-01-31

=============================================================================================================================

CLEARING MEMBER: XXXFR XXX BANK
EXCHANGE MEMBER: YYYFR YYY BANK


PRODUCT: ODAX
COVERAGE REQUIREMENT: 50 %                  EXPIRATIONS TO BE QUOTED: 6                    STRIKES TO BE QUOTED: 4
TOLERATED DAYS WITH VIOLATION: 4            REQUIRED MONTHLY VOLUME:   10000

DAY            PROD.TIME          ACCUM.TIME          REQUIREMENT       COVERED TIME      VIOLATION         VOLUME
----------     ---------          ----------          -----------       ------------      ---------       ---------
2001-01-02      10:00:00           480:00:00            240:00:00          240:10:15                          534
2001-01-03      10:01:01           480:48:48            240:24:24          239:05:31          1               454
2001-01-04      10:00:02           480:01:36            240:00:48          239:55:14          1               425
2001-01-05      09:58:59           479:11:12            239:35:36          240:11:51                          841
.
.
.
2001-01-31      10:00:20           480:16:00            240:08:00          241:16:18                          977
=============================================================================================================================
TOTALS:        220:00:02         10560:01:36           5280:00:48         5285:01:50          3              12254
                                                                         ============      =========       =========

MONTHLY                                                                        >=              <=              >=
REQUIREMENT:                                                              5280:00:48           4             10000

FULFILLED:                                                                    YES             YES             YES
                                                                         ============      =========       =========
```

2.6 Volatility Interrupt for Price-Time Matched Futures

With Eurex Release 6.0, a new protection mechanism automatically halts trading in a product if the latest price movements of the product exceed a predefined limit within a certain period of time (hereafter referred to as "triggering condition"). This "volatility interrupt" gives market participants sufficient time to check the order book and for Eurex Market Supervision to take action.

The trading GUI now provides a new audio signal. "Product set to Halt" is the new product state change event. As with other events, the GUI can be individually configured, by each user, using the *Audio Configuration* window, to indicate the occurrence of a "volatility interrupt" with an appropriate audio signal.

Details, and the schedule for the introduction of volatility interrupts, will be published in a separate circular.

2.6.1 Limitations

The volatility interrupt is introduced for future products which are price-time matched. The interrupt can be enabled or disabled individually by Eurex Market Supervision for any of these futures. Volatility interrupts are not used for options or pro rata matched futures.

A volatility interrupt can be activated individually for each of the trading phases "trading" or "fast market".

A match of a straightforward combination order against another combination order establishes no real trade prices for the single contracts. Consequently, there is no volatility interrupt possible for those trades.

OTC trades (block, basis or Vola trades) do not cause a volatility interrupt. Trade prices of OTC trades are not used as references for the triggering condition.

2.6.2 Volatility Interrupt Processing

The triggering of a volatility interrupt causes the Eurex system to perform the following actions:

1. Execute the trade that has triggered the volatility interrupt (subsequently, in case of a mistrade, the trade may be reversed by Market Supervision).
2. Write the incoming order to the order book, provided there is a remaining quantity and the order is not IOC-restricted.
3. Introduce stop orders triggered by the last trade price to the order book.
4. Change the product state to "halt", then to "pre-trading" and finally to "pre-opening". Then the market can immediately continue with the pre-opening phase. As in regular pre-opening in the morning, a potential opening price is re-calculated and posted.
5. Handle queued and incoming orders in the pre-opening phase, since the product is set to "pre-opening".
6. After final examination of the order book, the product is set to "trading" by Eurex Market Supervision.

2.6.3 Triggering Condition

The triggering condition for the volatility interrupt of a future product is defined by the following parameters:

- Two time frames of different length, but each limited to max. 99 seconds, valid for all future products and for both the "trading" and "fast market" phases.
- Actual trade price movements of all contracts of the future product in the observed time frames.
- Price ranges are defined per future product for the trading phases "trading" and "fast market". Each price range is configured as a percentage.
- Upper and lower limits are calculated individually for each time frame, depending on trade prices within the corresponding time frame. The upper limit is calculated by adding the configured price range to the minimum trading price; the lower limit is calculated by subtracting the price range from the maximum trading price. The volatility interrupt is triggered when an actual trade price is outside the defined limits for either of the two time frames.
- Minimum and maximum trade prices for each contract and time frame are calculated on the basis of trades in all contracts of the same product, and corrected by the spread of the previous day's settlement prices.

The calculated prices of all contracts are used for reference. If there are no trades for any of the contracts of the product within the respective time frame, no volatility interrupt can be triggered for this product.

There is no supervision of combination trading prices. If combination orders match synthetically against regular orders, then each of these trades can trigger the volatility interrupt for the respective contract. If the volatility interrupt is triggered and a combination order is involved, then the trades for both contracts are executed before the product is set to state "halt".

2.7 String Search Facility

With Eurex Release 6.0, there is a new string search facility for the Eurex trading and clearing applications. The new search facility allows users to search for a given string in overview list boxes of windows to quickly locate individual records, such as orders or trades.

The string search is applicable to any parameter that can be displayed in a GUI window list box, and operates on data already held by the GUI. The new functionality only affects the Eurex front-end GUIs and has no relevance to the VALUES API.

Using the new string search functionality helps to avoid reloading data from the Eurex back end by using filter criteria on the *Trading Filter* window.

It is suggested to inquire all relevant data only once in the beginning of the trading day. During the trading day the window list box is continuously updated by incoming broadcasts. To check if specific data records of interest (orders, trades, give-ups, take-ups) are added during the trading day, users may execute the new string search on list box records in the GUI window without generating any excess network traffic, and without generating any potentially fee-liable back end synchronous transactions.

A new *Find* window is introduced to allow users to specify a search string to be located in one of the selected overview window tables. The *Find* window is available as child window from the following overview windows:

- *Own Order Overview*
- *Own Trade Overview*
- *Position Detail Overview*
- *Give-Up Overview*
- *Take-Up Overview*

The *Find* window is accessed via the menu entry "Window".

The *Find* window provides two search buttons, "Find Next" and "Find Previous". Once the button "Find Next" or "Find Previous" is pressed, the GUI locates the next or previous occurrence of the given search string in the list box cells.

The string specified is always used as a substring during matching, e.g. searching for "234" matches "1,234.00".

Data is matched considering the current data format as displayed in the overview list box, e.g. searching for "1234” does not match “1,234.00”.

The search starts from the current cursor location. If a match is found, the cursor is reset to the first cell containing an occurrence of the string that matches the given search pattern. If no match is found in the entire list box, an appropriate message is displayed in the status bar.

A list of recently used search strings is maintained for a single instance of the application, but no settings are saved with the user profile.

2.8 New Raw Data Reports

With Eurex Release 6.0, several new raw data reports are introduced:

- Fee Overall Summary (RAWCB050)
- Premium Overall Summary (RAWCB090)
- Variation Margin Summary (RAWCB095)
- lnternal Position Limit (RAWCB105)
- Accepted Give-Up Trades (RAWCB140)
- Accepted Take-Up Trades (RAWCB160)
- Additional Margin (RAWCC045)
- Daily Margin (RAWCC050)
- Daily Margin Summary (RAWCC060)
- Monthly Interest (RAWCD230)
- Pending Delivery (RAWCE080)
- Settled Delivery (RAWCE100)
- Daily Trade Confirmation (RAWTC810)

For details on the new raw data reports, please refer to the associated document "Technical Release Notes" for Eurex Release 6.0.

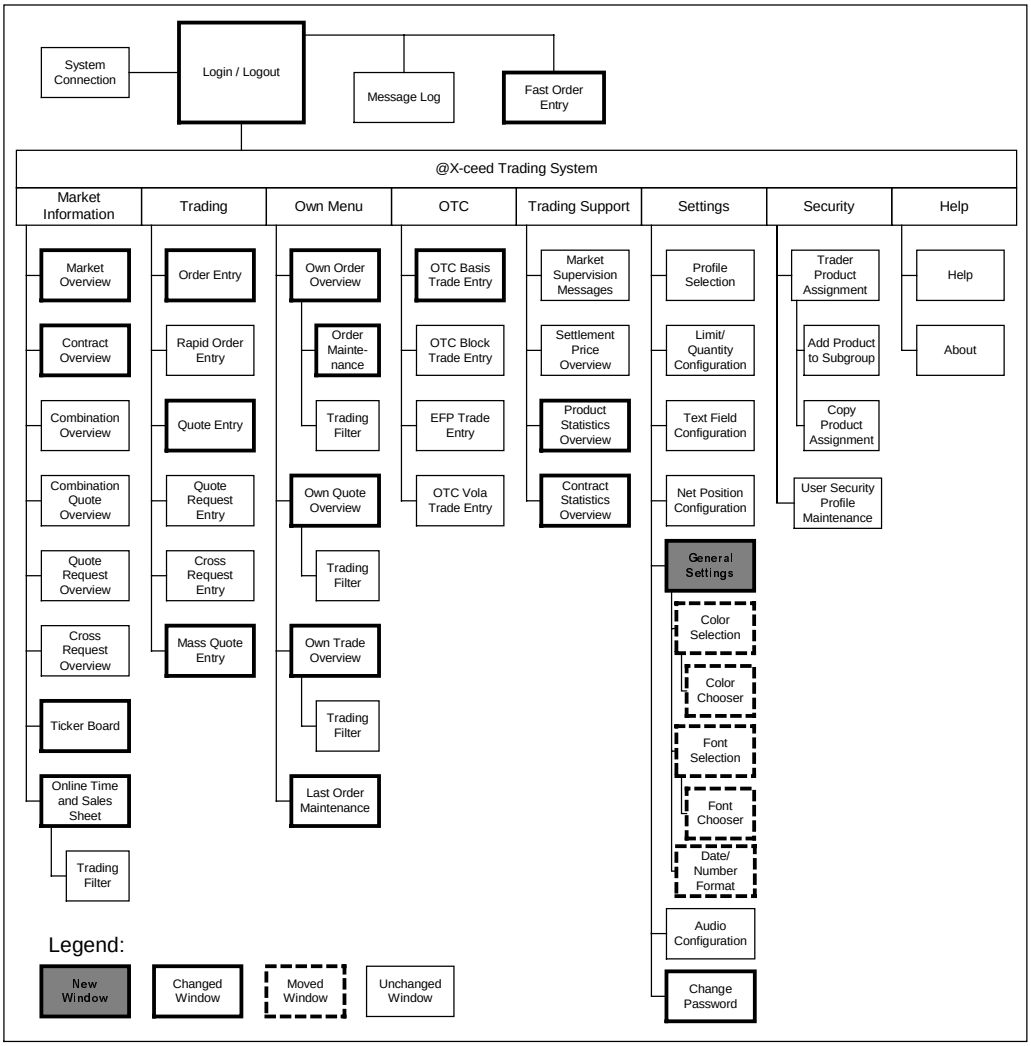
3 Window and Report Change Description - Summary

A list of all new and revides windows and reports for Eurex Release 6.0, including a brief description of the changes, is given in the following sections.

Detailed descriptions of the trading GUI will be published in the "Eurex @X-ceed Trading User Guide", of the clearing GUI in the "Eurex @X-tract Clearing User Guide" and of reports in the "Eurex Report Reference Manual". Simulation versions of the updated user guides and manuals will be available in September 2002.

3.1 @X-ceed Trading GUI - Window Flow

A high-level overview of the Eurex Release 6.0 related changes of the @X-ceed Trading GUI application is shown below. The window flow shows new windows, changed windows, moved windows and unchanged windows in context.

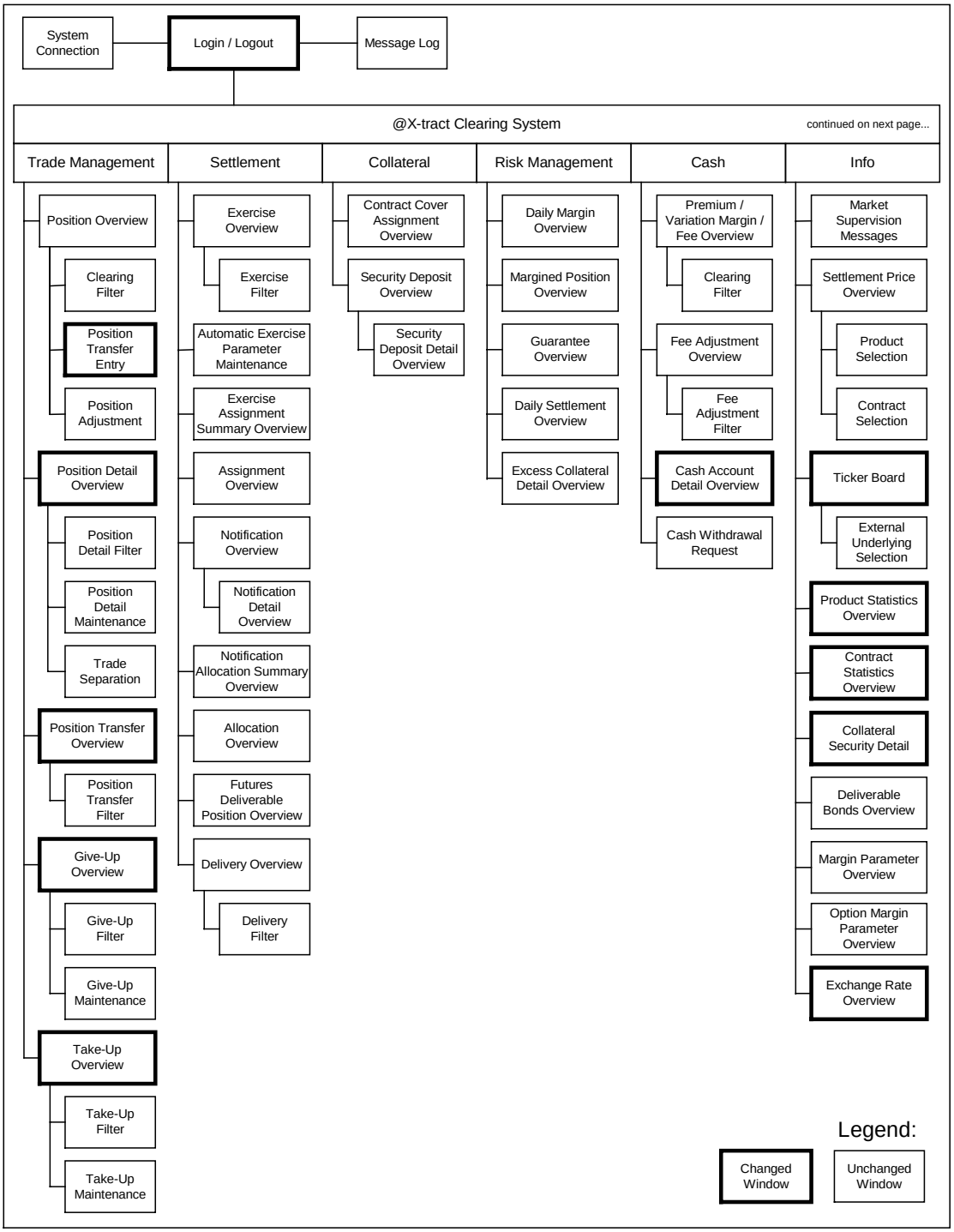


Trading GUI Menu Structure Overview

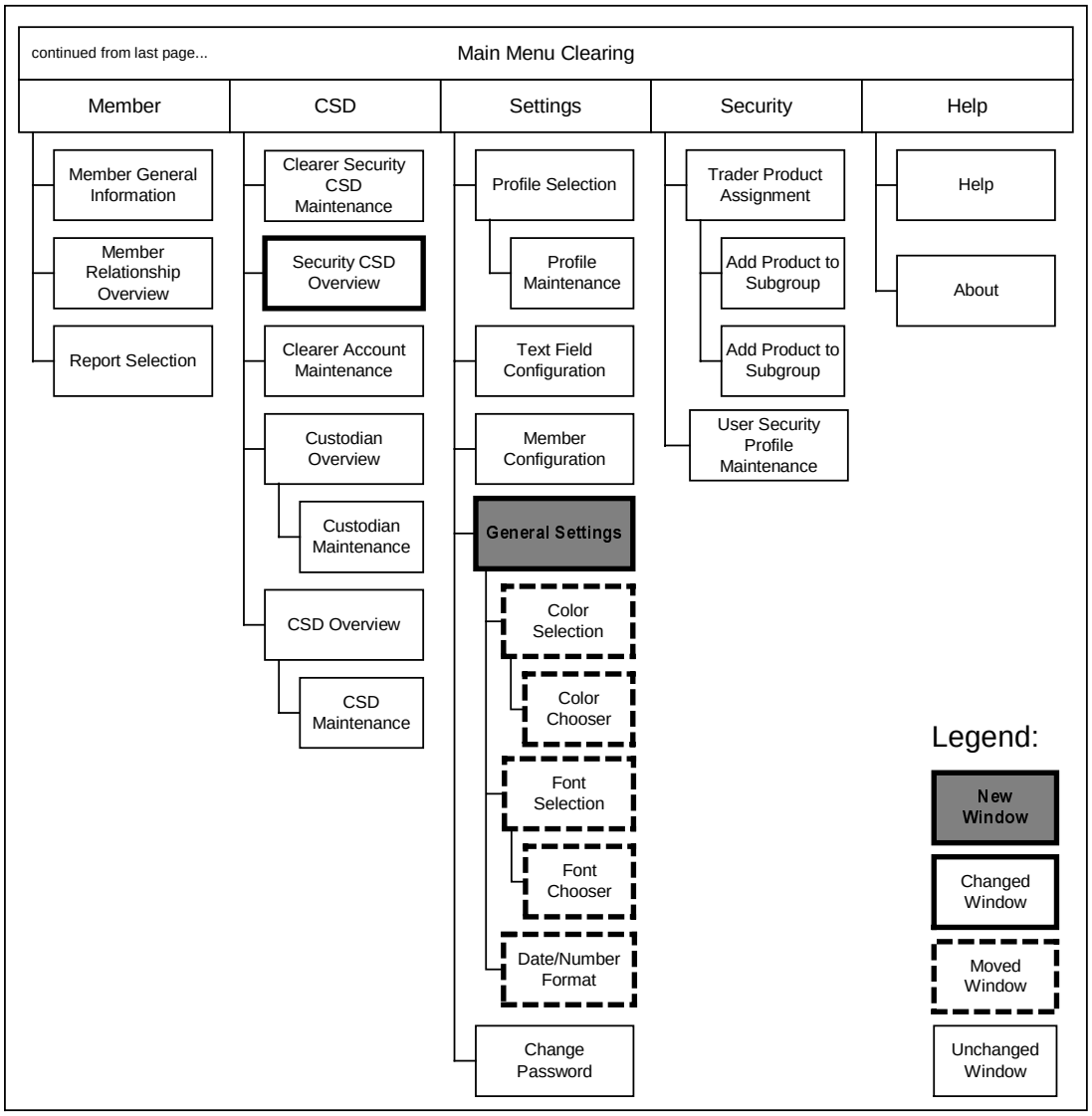
Abstracts of the trading GUI window changes are listed in section 3.3.

3.2 @X-tract Clearing GUI - Window Flow

A high-level overview of the Eurex Release 6.0 related changes of the @X-tract Clearing GUI application is shown below. The window flow in the images shows new windows, changed windows, moved windows and unchanged windows in context.



Clearing GUI Menu Structure Overview – Part 1



Clearing GUI Menu Structure Overview – Part 2

Abstracts of the clearing GUI window changes are listed in section 3.4.

3.3 Modified Windows of @X-ceed Trading GUI

For the windows of the @X-ceed Trading GUI, only modifications to the corresponding windows of Eurex Release 5.0 are listed below.

3.3.1 Menu Item "Market Information"

Window Name	Change Description	Org.
MARKET OVERVIEW	At the end of the listbox, 11 new columns are added to display DNTP related information: *DNTPFut* DNTP future contract *RndLot* Round lot of DNTP *FutFixPrc* Fixed price of related future contract *CBidFutSiz* Related future size for bid side of call contract *CBidDelta* DNTP delta for bid side of call contract *CAskDelta* DNTP delta for ask side of call contract *CAskFutSiz* Related future size for ask side of call contract *PBidFutSiz* Related future size for bit side of put contract *PBidDelta* DNTP Delta for bid side of put contract *PAskDelta* DNTP Delta for ask side of put contract *PAskFutSiz* Related future size for ask side of put contract When the *Fast Order Entry*, *Order Entry* or *Quote Entry* window is opened from this window by double-clicking a cell in the order book, or by using the context menu, the *future fixed price* is transferred into the opened window.	Eurex EEX

Window Name	Change Description	Org.
CONTRACT OVERVIEW	In the history row, three new columns are added at the end of the table to display DNTP-related information: *DNTPFut* DNTP future contract *RndLot* Round lot of DNTP *FutFixPrc* Fixed price of related future contract In the order book listbox, four new columns are added for DNTP contracts at the end of the table. *BidFutSiz* Related future size for bid side *BidDelta* DNTP Delta for bid side *AskDelta* DNTP Delta for ask side *AskFutSiz* Related future size for ask side When the *Fast Order Entry*, *Order Entry* or *Quote Entry* window is opened from this window by double-clicking a cell in the order book or by using the context menu, the future fixed price is transferred into the opened window.	Eurex EEX
TICKER BOARD	If a DNTP is selected for display, the columns *Close* (closing price), *Open* (opening price), *High* (daily high price) and *Low* (daily low price) show no information, since this data is not broadcast for DNTPs. The layout of this window is unchanged.	Eurex EEX
ONLINE TIME AND SALES SHEET	When entering a selected DNTP, no information about any DNTP trades is shown here. The information can be retrieved indirectly by entering one of the associated DNTP leg products as the selected product. Trades resulting from DNTP trading are marked with "D" in column *TrdTyp*. The layout of this window is unchanged.	Eurex EEX

3.3.2 Menu Item "Trading"

Window Name	Change Description	Org.
ORDER ENTRY	Orders for DNTP contracts can be entered here. There is a new field, *FutFixPrc,* for displaying and entering the future fixed price of a DNTP. When the window is opened by pre-filling, e.g. from *Market Overview*, *Contract Overview* or *Own Order Overview*, with a DNTP product, the future fixed price value is transferred into the *FutFixPrc* entry field, and the entry field is display-only. When the window is opened without pre-filling from any other window, e.g. from *Main Menu*, and a DNTP product is entered, then the entry field *FutFixPrc* is enabled, empty and mandatory. In this case, the future fixed price has to be entered manually. As long as no DNTP product is entered, the *FutFixPrc* entry field is disabled. When the order is submitted, the future fixed price is validated against the current future fixed price. If they differ, the order is rejected. The future fixed price is not updated automatically. On entry of a DNTP • entry fields *Comb, 2ndLeg* and *OCI* are disabled, • entry field *Validity* is disabled and empty since all DNTP orders are entered as Good-For-Day, • entry field *Res* offers values Fill-Or-Kill, Immediate-Or-Cancel or is empty (as for option products). Stop orders are not allowed. The future fixed price value is not saved or restored by *Save Settings*.	Eurex EEX
FAST ORDER ENTRY	All changes in the *Order Entry* window also apply to the *Fast Order Entry* window. (see ORDER ENTRY above)	Eurex EEX

Window Name	Change Description	Org.
QUOTE ENTRY	Quotes for DNTP contracts can be entered here. There is a new field, *FutFixPrc,* for displaying and entering the future fixed price of a DNTP. When the window is opened by pre-filling, e.g. from *Market Overview*, *Contract Overview* or *Own Quote Overview* with a DNTP product, the future fixed price is transferred into the *FutFixPrc* entry field and the entry field becomes display-only. When the window is opened without pre-filling from any other window, e.g. from *Main Menu*, and a DNTP product is entered, then the entry field *FutFixPrc* is enabled, empty and mandatory. In this case, the future fixed price has to be entered manually. If no DNTP product is entered, the *FutFixPrc* entry field is disabled. The *FutFixPrc* field is not updated automatically if the value of the future fixed price changes. Upon entering a quote for a DNTP, the entry fields *Comb* and *2ndLeg* are disabled. The future fixed price value is not saved or restored by *Save Settings*.	Eurex EEX
MASS QUOTE ENTRY	Mass quotes for DNTP contracts can be entered here. There is a new field, *FutFixPrc,* for entering and a new list box column named *FutFixPrc* for displaying the future fixed price of a DNTP. By default, the new column is placed at the end of the table. When the window is opened by pre-filling (from *Own Quote Overview*) with a DNTP product, then the future fixed price is transferred into the *FutFixPrc* column and entry field. When the window is opened without pre-filling from any other window, e.g. from *Main Menu*, and a DNTP product is entered, then the entry field *FutFixPrc* is enabled, empty and mandatory. In this case, the future fixed price has to be entered manually. If no DNTP product is entered, the *FutFixPrc* entry field is disabled. The future fixed price is not updated automatically. The future fixed price value is not saved or restored by *Save Settings*.	Eurex EEX

3.3.3 Menu Item “Own Menu“

Window Name	Change Description	Org.
OWN ORDER OVERVIEW	Three new columns display DNTP order-related information at the end of the list box: *FutFixPrc* Fixed price of related future contract *Delta* Delta of the DNTP *FutSiz* Related DNTP future size When a new order is entered by clicking the *Add Using...* button, the *Order Entry* window is filled with the data from the selected order, including the future fixed price, in case a DNTP product has been selected. When a DNTP order is modified, the future fixed price is also transferred to the *Order Maintenance* window. When the *Add…* button is clicked, the *Order Entry* window is opened without pre-filled data. The future fixed price has to be entered manually for DNTP orders.	Eurex EEX
ORDER MAINTENANCE	Orders for DNTP contracts can be modified or deleted here. There is a new field, *FutFixPrc,* for displaying the future fixed price of a DNTP. When the window is opened from *Own Order Overview* or from *Main Menu* with an order for a DNTP product, the future fixed price value is transferred into the display field *FutFixPrc*. This field contains the originally entered value and may not be changed. If a DNTP order is removed due to a change of the future fixed price, attempting to modify or delete such an order causes an error message.	Eurex EEX
LAST ORDER MAINTENANCE	All changes described for the *Order Maintenance* window also apply to the *Last Order Maintenance* window. (see ORDER MAINTENANCE above)	Eurex EEX

Window Name	Change Description	Org.
OWN QUOTE OVERVIEW	Five new columns display data for DNTP quotes at the end of the list box: *FutFixPrc* Fixed price of related future contract *BidFutSiz* Related future size for bid side *BidDelta* DNTP delta for bid side *AskDelta* DNTP delta for ask side *AskFutSiz* Related future size for ask side When one or more new quotes are entered by clicking the *Add Using…* button, the respective *Quote Entry* or *Mass Quote Entry* window is filled with the data from the selected quote including the future fixed price, in case a DNTP product is selected. When the *Add…* button is clicked, the *Quote Entry* window opens without pre-filled data. The future fixed price has to be entered manually for DNTP quotes.	Eurex EEX
OWN TRADE OVERVIEW	When entering a DNTP as the selected product, no information about any DNTP trades is shown. The information can be retrieved indirectly by entering one of the associated DNTP leg products as the selected product. Trades resulting from DNTP trading are marked with "D" in column *TrdTyp*. The layout of this window is unchanged.	Eurex EEX

3.3.4 Menu Item “OTC“

Window Name	Change Description	Org.
OTC BASIS TRADE ENTRY	Entering a WKN in the *Bond* field no longer results in a corresponding ISIN conversion. Only ISIN codes are accepted in this field now.	Eurex EEX

3.3.5 Menu Item "Trading Support"

Window Name	Change Description	Org.
PRODUCT STATISTICS OVERVIEW	DNTP trading volumes are displayed like inter-product spread (IPS) trading volumes: • For an option leg of a DNTP, the option volume resulting from DNTP trading is added to the normal option trading volume shown in the columns *CVol* and *PVol*. • For a future leg of a DNTP, the future volume resulting from DNTP trading is added to the normal future trading volume shown in the column *FutVol*. If a DNTP future leg is also defined for an IPS, both volumes are added to the normal future trading volume in this column. • For the DNTP itself, the related option trade volume is displayed in the columns *CVol* and *PVol*. Nothing is displayed in the column *FutVol*. The layout of this window is unchanged.	Eurex EEX
CONTRACT STATISTICS OVERVIEW	DNTP trading volumes are displayed like inter-product spread (IPS) trading volumes: • For an option leg of a DNTP, the option volume resulting from DNTP trading of both the put and the call side are shown in the column *IPSVol*. It is not added to the normal volumes listed in the columns *CVol, CPrevVol, C5DayAvgVol, PVol, PprevVol* and *P5DayAvgVol*. • For a future leg of a DNTP, the future volume resulting from DNTP trading is shown in the column *IPSVol*. If a DNTP future leg is also defined for an IPS, both volumes are accumulated in this column. The future volume resulting from DNTP trading is not added to the normal volumes listed in the columns *CVol, CPrevVol, C5DayAvgVol, PVol, PPrevVol* and *P5DayAvgVol*. • For the DNTP itself, the option trade volume is displayed in the columns *CVol* and *PVol*. The columns *CPrevVol, C5DayAvgVol, PPrevVol* and *P5DayAvgVol* are maintained accordingly. Nothing is displayed in the column *IPSVol*.	Eurex EEX

3.3.6 Menu Item "Settings"

Window Name	Change Description	Org.
GENERAL SETTINGS	**New:** This window is a collection of several former settings windows, now organized into one window with several tabbed panes, for the improved handling of general trader-specific settings. The *General Settings* window includes the following on tabbed panes: • *Color Selection* with associated *Color Chooser* • *Font Selection* with associated *Font Chooser* • *Date / Number Format* The corresponding standalone windows are removed from the Settings menu. The new tabbed panes contain the original standalone window layouts and perform the same functions.	Eurex EEX
COLOR SELECTION	Removed from GUI as a standalone window; now embedded as tabbed pane in the *General Settings* window.	Eurex EEX
FONT SELECTION	Removed from GUI as a standalone window; now embedded as tabbed pane in the *General Settings* window.	Eurex EEX
DATE/NUMBER FORMAT	Removed from GUI as a standalone window; now embedded as tabbed pane in the *General Settings* window.	Eurex EEX
CHANGE PASSWORD	The field label *UserID* changed to *TraderID.* The layout of this window is unchanged.	Eurex EEX

3.3.7 Auxiliary Windows

Window Name	Change Description	Org.
LOGIN/LOGOUT	The window changed as follows: Eliminated the text field for the exchange code in the upper part of the window Renamed the text label of the entry field for the trader name ifrom *Identification* to *TraderID*. In the list box in the lower part of the window, renamed the column *Trader* to *TraderID* Now shows the Eurex logo after a successful login to the Eurex exchange	Eurex EEX

Window Name	Change Description	Org.
CONTRACT SELECTION	The option combination types are displayed for DNTPs, but no available second legs are listed; therefore, no combinations can be selected. The layout of this window is unchanged.	Eurex EEX
FIND	**New:** This new window is called by various overview windows as described in section 2.7. The new string search facility allows users to search for a given string in the list boxes of windows to quickly locate individual records, such as orders or trades, in a resource saving fashion. For details, please refer to section 2.7.	Eurex EEX
PRINT / PRINT TABLE	All prints created from the window menu sequence *Print Table* or *Print* now contain a header with the parent window title and the trader identification, and a footer with the date, time and page number information. Table data is printed including the column names. The layout of this window is unchanged.	Eurex EEX

3.4 Modified Windows of @X-tract Clearing GUI

For the windows of the @X-tract Clearing GUI, only modifications to the corresponding windows of Eurex Release 5.0 are listed below.

3.4.1 Menu Item “Trade Management“

Window Name	Change Description	Org.
POSITION TRANSFER ENTRY	A new field, *CashAmount,* allows partial position transfers and associated cash transfers between different members. The new field is editable and accepts positive or negative values. The field is optional and enables members to transfer a related cash amount, together with a position transfer, or to transfer a cash amount with no associated positions. For straightforward cash transfers, a contract has to be specified. The *CashAmount* entered may not exceed the absolute cash amount limit defined, per currency and per transaction, by Market Supervision in the *Exchange Rate Overview* window. The fields *Long* and/or *Short* have to be filled for the position transfer part. With Eurex Release 6.0, these fields may be zero if only cash is to be transferred. Three new optional free-format text fields, *Customer, MIOrdNo* and *Text* are included to reflect customer-related details, e.g. the member internal order number associated with optional partial position transfers.	Eurex EEX
POSITION DETAIL OVERVIEW	When entering a DNTP as the selected product, no information about any DNTP positions or position transactions is shown here. The information can be retrieved indirectly by entering one of the associated DNTP leg products as the selected product. Positions or position transactions resulting from DNTP trades are marked with a "D" in the column *TrdTyp*. The layout of this window is unchanged.	Eurex EEX
POSITION TRANSFER OVERVIEW	Four new columns, *CashAmount, Customer*, *MIOrdNo* and *Text* display the cash amount entered and the contents of the three new customer-related information fields. Position transfers with cash can easily be found by sorting the position transfers using the *CashAmount* column.	Eurex EEX

Window Name	Change Description	Org.
GIVE-UP OVERVIEW	All remarks related to the *Position Detail Overview* window are also applicable for the *Give-up Overview* window. (see POSITION DETAIL OVERVIEW above)	Eurex EEX
TAKE-UP OVERVIEW	All remarks related to the *Position Detail Overview* window are also applicable to the *Take-up Overview* window. (see POSITION DETAIL OVERVIEW above)	Eurex EEX

3.4.2 Menu Item "Cash"

Window Name	Change Description	Org.
CASH ACCOUNT DETAIL OVERVIEW	This window now displays the interest on cash margin. The layout of this window is unchanged.	Eurex EEX

3.4.3 Menu Item "Info"

Window Name	Change Description	Org.
TICKER BOARD	If a DNTP is selected for display, the columns *Close* (closing price), *Open* (opening price), *High* (daily high price) and *Low* (daily low price) show no information, since this data is not broadcast for DNTPs. The layout of this window is unchanged.	Eurex EEX
PRODUCT STATISTICS OVERVIEW	DNTP trading volumes are displayed like Inter-Product Spread (IPS) trading volumes: • For an option leg of a DNTP, the option volume resulting from DNTP trading is added to the normal option trading volume shown in the columns *CVol* and *PVol*. • For a future leg of a DNTP, the future volume resulting from DNTP trading is added to the normal future trading volume shown in the column *FutVol*. If a DNTP future leg is also defined for an IPS, both volumes are added to the normal future trading volume in this column. • For the DNTP itself, the related option trade volume is displayed in the columns *CVol* and *Pvol*. Nothing is displayed in the column *FutVol*. The layout of this window is unchanged.	Eurex EEX

Window Name	Change Description	Org.
CONTRACT STATISTICS OVERVIEW	DNTP trading volumes are displayed like Inter-Product Spread (IPS) trading volumes: • For an option leg of a DNTP, the option volume resulting from DNTP trading of both the put and the call side are shown in the column *IPSVol*. It is not added to the normal volumes listed in the columns *CVol, CPrevVol, C5DayAvgVol, PVol, PPrevVol* or *P5DayAvgVol*. • For a future leg of a DNTP, the future volume resulting from DNTP trading is shown in the column *IPSVol*. If a DNTP future leg is also defined for an IPS, both volumes are accumulated in this column. The future volume resulting from DNTP trading is not added to the normal volumes listed in the columns *CVol, CPrevVol, C5DayAvgVol, PVol, PPrevVol* or *P5DayAvgVol*. For the DNTP itself, the option trade volume is displayed in the columns *CVol* and *PVol*. The columns *CPrevVol, C5DayAvgVol, PPrevVol* and *P5DayAvgVol* are maintained accordingly. Nothing is displayed in the column *IPSVol*.	Eurex EEX
COLLATERAL SECURITY DETAIL	Entering a WKN in the *Security* field no longer causes an implicit ISIN conversion. Only ISIN codes are accepted now.	Eurex EEX
EXCHANGE RATE OVERVIEW	A new column, *CashLimit,* shows the cash limit per transaction and per currency, defined by Market Supervision. The cash limit is the maximum absolute amount per transfer and per currency that is valid for all members and a single partial position transaction with cash amount. No totals over all position transfer cash amounts per member and product are affected.	Eurex EEX

3.4.4 Menu Item “CSD“

Window Name	Change Description	Org.
SECURITY CSD OVERVIEW	Entering a WKN in text field *ISIN* no longer causes an implicit ISIN conversion. Only ISIN codes are accepted now. The layout of this window is unchanged.	Eurex EEX

3.4.5 Menu Item "Settings"

Window Name	Change Description	Org.
GENERAL SETTINGS	**New:** This window is a collection of several former settings windows, now organized into one window with several tabbed panes, for the improved handling of general trader-specific settings. The *General Settings* window includes the following on tabbed panes: • *Color Selection* with associated *Color Chooser* • *Font Selection* with associated *Font Chooser* • *Date / Number Format* The corresponding standalone windows are removed from the Settings menu. The new tabbed panes contain the unchanged original standalone window layouts and functionalities.	Eurex EEX
COLOR SELECTION	Removed from the GUI as a standalone window; now embedded as a tabbed pane in the *General Settings* window.	Eurex EEX
FONT SELECTION	Removed from the GUI as a standalone window; now embedded as a tabbed pane in the *General Settings* window.	Eurex EEX
DATE/NUMBER FORMAT	Removed from the GUI as a standalone window; now embedded as a tabbed pane in the *General Settings* window.	Eurex EEX
CHANGE PASSWORD	The field label *UserID* changed to *TraderID.* The layout of this window is unchanged.	Eurex EEX

3.4.6 Auxiliary Windows

Window Name	Change Description	Org.
LOGIN/LOGOUT	This window changed as follows: Eliminated the text field for the Exchange code in the upper part of the window Renamed the text label of the entry field for the trader name from *Identification* to *TraderID*. In the list box in the lower part of the window, renamed the column *Trader* to *TraderID* Now shows the Eurex logo after a successful login to the Eurex exchange	Eurex EEX

Window Name	Change Description	Org.
FIND	**New:** This new window is called by various overview windows as described in section 2.7. The new string search facility allows users to search for a given string in the list boxes of windows to quickly locate individual records, such as orders or trades in a resource saving fashion. For details, please refer to section 2.7.	Eurex EEX

3.5 Report Change Summary

The majority of Eurex Release 6.0 report changes result from the introduction of "Delta-Neutral Trading Products" and of the new "Partial Position Transfer with Cash Amount" function.

In the following, the extensions and modifications of the Eurex reports are described. Only changes from Eurex Release 5.0 reports are shown.

For details on new raw data reports, please refer to the associated document "Technical Release Notes" for Eurex Release 6.0.

Full descriptions are published in the "Eurex Report Reference Manual" and in the "Eurex Member Interface Specification – File Interface Layouts". First versions of the updated manuals will be available in September 2002.

Report ID	Report Name	Change Description	Org.
RPTCB010 RAWCB010	POSITION DETAIL	Lists all trades and position adjustments of the day for each member, product and series. Three new free-format text fields, *Customer*, *MlOrdNo* and *Text* – on one additional row per position, but only if the associated data is available. Positions in the DNTP related options series and in the related future contract are listed. DNTP related positions are distinguishable from regular positions using a new trade type "D" and a special trade movement "DNT TRADE".	Eurex EEX

Report ID	Report Name	Change Description	Org.
RPTCB030	POSITION TRANSFER OVERVIEW	Partial position transfers with cash amount are shown separately at the end of the report. A new line per transaction is added to display all cash transfers corresponding to the new position transfer type and the three new text fields, *Customer*, *MIOrdNo* and *Text*, but only if associated data is available. In front of the displayed cash amount it is indicated whether the amount is paid or received by the member. The amount itself is always positive.	Eurex EEX
RPTCB040	TRANSACTION FEE SUMMARY	Lists accumulated trade fees per clearing member, by account and by product. For DNTP trades, the positions and fees are created only for the related option and future legs. In the same way, the potential trade adjustment or exercise fees are generated only for the related legs. DNTPs are displayed with the same product type as the related option, but no fees are shown. The layout of this report is unchanged.	Eurex EEX
RPTCB050 RAWCB050	FEE OVERALL SUMMARY	This report is now distributed to NCMs. NCMs see only their own accounts. CMs see their own accounts and the accounts of their NCMs. The layout of this report is unchanged.	Eurex EEX
RPTCB069	MARKET MAKER FEE ADJUSTMENT CALCULATION	The new column REFUND FACTOR shows fee reduction factors, depending on the type of quotation. The layout of this report is unchanged.	Eurex EEX
RPTCB105 RAWCB105	INTERNAL POSITION LIMIT	**New:** This report shows the number of long and short positions in futures contracts, and their total number per exchange user. This report is available to GCMs, DCMs and NCMs. NCMs see only their own accounts, CMs see their own accounts and the accounts of their associated NCMs.	Eurex EEX

Report ID	Report Name	Change Description	Org.
RPTCB120	MEMBER EXCEPTION REPORT – PART A: POSITIONS	This report is divided into two parts. Part one shows detailed data on transactions that are adjusted because of position closing errors. Part two shows rejected position transfers, including rejected partial position with cash transfers. Only part two is changed with Eurex Release 6.0. To reflect the cash side of the new transaction type “Partial Position Transfer with Cash Amount”, there is a new line per transaction. This line displays all of the cash transfers corresponding to the new position transfer type, and the three new text fields, *Customer*, *MIOrdNo* and *Text*. In front of the *CashAmount* it is indicated whether the amount is paid or received by the member. The amount itself is always positive.	Eurex EEX
RPTCB130	GIVE-UP TRADE HISTORY	Option and futures positions created by a DNTP leg give-up are marked with the new trade type "D". The layout of this report is unchanged.	Eurex EEX
RPTCB140 RAWCB140	ACCEPTED GIVE-UP TRADES	Option and futures positions created by a DNTP leg give-up are marked with the new trade type "D". The layout of this report is unchanged.	Eurex EEX
RPTCB150	TAKE-UP TRADE HISTORY	Option and futures positions created by a DNTP leg take-up are marked with the new trade type "D". The layout of this report is unchanged.	Eurex EEX
RPTCB160 RAWCB160	ACCEPTED TAKE-UP TRADES	Option and futures positions created by a DNTP leg take-up are marked with the new trade type "D". The layout of this report is unchanged.	Eurex EEX

Report ID	Report Name	Change Description	Org.
RPTCD010	DAILY CASH ACCOUNT STATEMENT	For interest on cash margin, one new line for the interest received is added, associated to the new transaction type "231". For the cash side of the new transaction type “Partial Position Transfer with Cash Amount”, there is a new line per currency and per clearing member (stated off-balance) to display the accumulated cash amounts (debit and/or credit).	Eurex EEX
RPTCD070	MONTHLY CASH ACCOUNT STATEMENT	There is a new line for the interest received, associated to new transaction type "231".	Eurex EEX
RPTCD230 RAWCD230	MONTHLY INTEREST	**New:** Shows ending balance, the applied interest rate and the interest on cash margin, credited each day, and totaled for the month.	Eurex EEX
RPTTC540	DAILY ORDER MAINTENANCE	Lists all order events of the day sorted by member and per series. Orders for DNTPs are listed like options. Only the DNTP order price and the DNTP match price are displayed. No other DNTP-specific data is displayed. The layout of this report is unchanged.	Eurex EEX
RPTTC810 RAWTC810	DAILY TRADE CONFIRMATION	Lists all trade confirmation messages generated during the day, per trader and per account. For DNTP trades, two trade confirmations are shown, one for the related option series and one for the related futures contract. No trade confirmation is generated for the DNTP itself. For DNTP, no specific positions are reported here. Instead, positions in the related options series and in the related future contract are listed. DNTP related positions are distinguished from regular positions by the new trade type "D". The layout of this report is unchanged.	Eurex EEX

Report ID	Report Name	Change Description	Org.
RPTTC820	DAILY DNTP TRADE REPORT	**New:** For each trader, per account and per matched delta-neutral trade, the following information related to one business day is listed: created positions for related option series, created positions for related future contract, calculated delta, future trade price, option trade price, and corresponding quantities.	Eurex EEX
RPTTD930 RAWTD930	DAILY TRADE STATISTICS	DNTP series are displayed in this report. Only the traded DTNP option volumes are displayed. For DNTPs, there are no settlement prices and no open interest because there is no position created. The highest price and the lowest price are not maintained for the day because they can refer to several futures fixed prices. Nor are the opening and closing prices maintained; and these appear as zero. The layout of this report is unchanged.	Eurex EEX
RPTTD955	PERMANENT QUOTATION MEASUREMENT	**New:** Contains Permanent Quotation Measurement values for each business day of the current month, up to the current day. “Month-to-date” totals are also shown. The report generated on the last business day of the month contains additional fulfillment statistics.	Eurex EEX
RPTTD970	TRADING VOLUME AND MARKET SHARE – OPTIONS	This report lists accumulated trading volume for one member per member account and per option product. Accumulated trading volume is calculated from the total amount of positions created during the day. No DNTP is listed on this report because no positions are created for DNTPs. The total DNTP traded volume from the DNTP related option leg is shown. The layout of this report is unchanged.	Eurex EEX

Report ID	Report Name	Change Description	Org.
RPTTD975	TRADING VOLUME AND MARKET SHARE – FUTURES	This report lists accumulated trading volume for one member per member account and per future product. Accumulated trading volume is calculated from the total amount of positions created during the day. No DNTP is listed on this report because X no positions are created for DNTPs. The total DNTP traded volume from the DNTP related future leg is shown. The layout of this report is unchanged.	Eurex EEX
RPTTT125	TRADER UNDERLYING STATUS	This report lists member and trader product assignments for each product, with the corresponding maximum order quantity. Member and trader product assignment are listed for DNTPs as for regular options. Maximum order quantities for DNTPs are not linked with the maximum order quantities of the related options and the related futures. The layout of this report is unchanged.	Eurex EEX

4 Appendix A – Eurex Functional Documentation

The simulation version of the updated functional documentation will be available in September 2002.
Final production versions of the documents will be published in October 2002.

Updated Eurex Functional Documentation	
Document ID	**Name of the Document**
X0004101	Eurex User Manual – Information Manual
X0004102	Eurex User Manual – System Overview
X0004103	Eurex User Manual – System Security
X0006100	Eurex @X-tract Clearing User Guide
X0006101	Eurex Report Reference Manual
X0006900	Eurex @X-ceed Trading User Guide
X0007100	@Eurex User Reference Guide
X0007200	Eurex Intraday Risk Information Service – User Guide

5 Appendix B – Glossary of Terms and Abbreviations

Term	Resolution
@Eurex	Eurex Trading front-end software for trading network access via Internet
@X-ceed	Name of the Java-based Eurex trading front-end application
@X-tract	Name of the Java-based Eurex clearing front-end application
API	**A**pplication **P**rogramming **I**nterface
AWV	**A**ußen**W**irtschafts**V**erordnung
BESS	**B**ack **E**nd **S**pecific **S**ubsystems are needed to access the exchange-specific back end
CHF	Swiss Franc currency
CM	**C**learing **M**ember (general term for DCMs and GCMs)
CSD	**C**entral **S**ecurities **D**epository
DCM	**D**irect **C**learing **M**ember
DNT	**D**elta-**N**eutral **T**rading
DNTP	**D**elta-**N**eutral **T**rading **P**roduct
DVP	**D**elivery **v**ersus **P**ayment
EONIA	**E**uro **O**ver**N**ight **I**ndex **A**verage – lending rate issued daily by European Central Bank
EEX	**E**uropean **E**nergy E**x**change
EUR	**Eur**o currency
GATE	**G**eneric **A**ccess **T**o **E**xchange
GCM	**G**eneral **C**learing **M**ember
GUI	**G**raphical **U**ser **I**nterface
HIT	**Hi**storical **T**rade flag (not to be confused with HiTT)
HiTT	**Hi**storical **T**rade **T**ransfer
ID	**Id**entification
IPS	**I**nter-**P**roduct **S**pread
ISIN	**I**nternational **S**ecurity **I**dentification **N**umber
JRE	**J**ava **R**untime **E**nvironment
LZB	**L**andes**z**entral**b**ank
MISS	**M**ember **I**ntegration **S**ystem **S**erver

Term	Resolution
NCM	**N**on-**C**learing **M**ember
OTC	**O**ver-**T**he-**C**ounter
Qty	**Q**uanti**ty**
RPT	**R**e**p**or**t**
VALUES	**V**irtual **A**ccess **L**ink **U**sing **E**xchange **S**ervices is an Exchange developed and supported API, enabling members to interface their own applications to the Exchange.
WKN	**W**ertpapier **K**enn**n**ummer

Eurex Release 6.0

Final Technical Release Notes

© Eurex 2002

All proprietary rights and interest in this publication shall be vested in Eurex Administration and Management (”Eurex”) and all other rights including, but without limitation, patent, registered design, copyright, trade mark, service mark, connected with this publication shall also be vested in Eurex.

Whilst all reasonable care has been taken to ensure that the details contained in this publication are accurate and not misleading at the time of publication, no liability is accepted by Eurex for the use of information contained herein in any circumstances connected with actual trading or otherwise. Neither Eurex, nor its servants nor agents, is responsible for any errors or omissions contained in this publication which is published for information only and shall not constitute investment advice. This brochure is not intended for solicitation purposes but only for the use of general information.

All descriptions, examples and calculations contained in this publication are for guidance purposes only and should not be treated as definitive. Eurex reserves the right to alter any of its rules or contract specifications, and such an event may affect the validity of information in this publication.

® Eurex is a registered trademark

Modifications

Modifications compared to Eurex 6.0 Preliminary Technical Release Notes

Chapter	Nature of Change
1.5	added chapter describing User Profile Conversion from Eurex 5.0 to 6.0
2.2	added details for broadcast split and distribution, rearranged chapter
2.2.3	added details and example for broadcast exclusion
2.3	changed transaction type "231" to "230"
3.2	modified values of field REPT-REC-TYP-COD-RWCB010
3.3	added valid values for REPT-REC-TYP-COD-RWCB050
3.4	added valid values for REPT-REC-TYP-COD-RWCB090
3.5	added valid values for REPT-REC-TYP-COD-RWCB095
3.6	added valid values for REPT-REC-TYP-COD-RWCB105
3.7	changed "(blank)" in description of SERI-VERS-NO-RWCB140 to "(0)"
3.8	changed "(blank)" in description of SERI-VERS-NO-RWCB160 to "(0)"
3.12	modified format of field Q_INTEREST_RATE-RWCD230 from PIC -(13)9.9(2) to PIC -(13)9.9(5)
3.13	changed "(blank)" in description of SERI-VERS-NO-RWCE080 to "(0)", changed order of fields, added field CSD-ACCOUNT-RWCE080
3.14	added valid values for REPT-REC-TYP-COD-RWCE100
3.14	changed "(blank)" in description of SERI-VERS-NO-RWCE100 to "(0)"
3.15	added valid values for REPT-REC-TYP-COD-RWTC810
3.15	changed "(blank)" in description of SERI-VERS-NO-RWTC810 to "(0)", added field ORDR-TYP-DEC-RWTC810
3.16	added chapter describung the modifications to file FPTHEA
4	added chapter describing the Eurex Software Introduction timeline details
all	replaced former future references with actual data

Table of Contents

1	**General Information**	**5**
1.1	**Operating System Platform Support**	**5**
1.2	**Introduction of GATE Release 3.1**	**6**
1.3	**Java Runtime Environment**	**7**
1.4	**Performance and Stability Enhancements of Eurex GUIs**	**7**
1.5	**User Profile Conversion**	**7**
2	**Technical Enhancements**	**8**
2.1	**Introduction of new Trade Type "D" for Delta Neutral Trading Products**	**8**
2.2	**Eurex Network Transaction Roundtrip Time Improvements**	**8**
2.2.1	Broadcast Split and Distribution	8
2.2.2	Introduction of Broadcast Stream Groups	9
2.2.3	Broadcast Subscription and Exclusion	10
2.3	**Introduction of new Transaction Types**	**11**
3	**Raw Data Report Changes and File Interface Modifications**	**12**
3.1	**Raw Data Format Specification**	**12**
3.2	**Changed Raw Data Report: Position Detail (RAWCB010)**	**13**
3.3	**New Raw Data Report: Fee Overall Summary (RAWCB050)**	**18**
3.4	**New Raw Data Report: Premium Overall Summary (RAWCB090)**	**19**
3.5	**New Raw Data Report: Variation Margin Summary (RAWCB095)**	**20**
3.6	**New Raw Data Report: Internal Position Limit (RAWCB105)**	**21**
3.7	**New Raw Data Report: Accepted Give-Up Trades (RAWCB140)**	**23**
3.8	**New Raw Data Report: Accepted Take-Up Trades (RAWCB160)**	**25**
3.9	**New Raw Data Report: Additional Margin (RAWCC045)**	**28**
3.10	**New Raw Data Report: Daily Margin (RAWCC050)**	**29**
3.11	**New Raw Data Report: Daily Margin Summary (RAWCC060)**	**30**
3.12	**New Raw Data Report: Monthly Interest (RAWCD230)**	**31**
3.13	**New Raw Data Report: Pending Delivery (RAWCE080)**	**32**
3.14	**New Raw Data Report: Settled Delivery (RAWCE100)**	**34**
3.15	**New Raw Data Report: Daily Trade Confirmation (RAWTC810)**	**36**
3.16	**File Interface Layout Change – File FPTHEA**	**38**

Table of Contents

4	**Eurex Software Introduction in Production**	**40**
4.1	**Friday, October 18th, 2002**	**40**
4.2	**Friday, October 25th, 2002**	**40**
4.3	**Saturday, October 26th, 2002**	**41**
4.4	**Monday, October 28th, 2002**	**41**
5	**Appendix – Eurex Technical Documentation**	**42**

1 General Information

This document contains the "Technical Release Notes" for Eurex Release 6.0.

The technical focus of Eurex Release 6.0 is the introduction or enhancement of the following features:

- Introduction of new trade type "D" for delta-neutral trading products (section 2.1)
- Transaction roundtrip time improvements in the Eurex network (section 2.2)
- Introduction of new transaction types (section 2.3)
- Report enhancements, associated with new raw data files and file interface modifications (section 3)

Details about the technical novelties and enhancements of Eurex Release 6.0 are published in the updated Eurex member documentation. A simulation version of the Eurex member documentation will be available in September 2002, the final production versions will be available in October 2002.

A list of new and updated technical member documentation is attached in chapter 5.

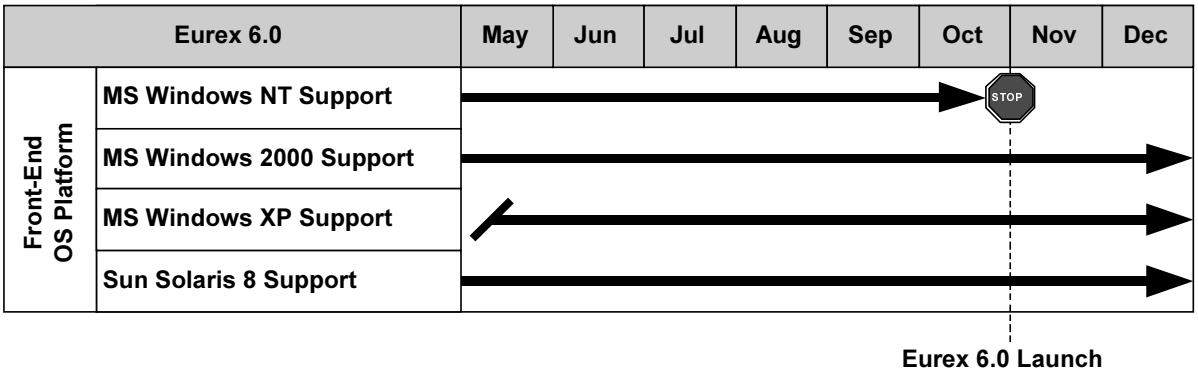
Functional aspects of Eurex Release 6.0 are described in the associated document "Functional Release Notes" for Eurex Release 6.0.

Changes to GATE and the VALUES API are not described in this document, please refer to the related modification notes published in Eurex Circular 044/2002.

Please note that in this document, the term “Eurex Release 6.0” refers to the electronic system that serves both organizations Eurex and EEX in common.

1.1 Operating System Platform Support

With the introduction of Eurex Release 6.0, the Eurex MISS-based front-end GUIs are provided on the platforms Windows 2000, Windows XP and Sun Solaris 8. Details are given in the table below.



The Internet-based @Eurex connection alternative is only available for Windows 2000 workstations.

Please note that the operating system Windows NT 4.0 is no longer supported as of the introduction of Eurex Release 6.0.

The supported MISS/Workstation combinations as of May 6, 2002 are shown in the following table:

Eurex - Supported Platforms **The combinations shown are supported from May 6, 2002 until the introduction of Eurex Release 6.0.** **After the introduction, the support for the platforms shaded in grey is terminated.**		**MISS Platform**			
		MS Windows NT 4, SP5	**MS Windows 2000, SP2**	**MS Windows XP Professional**	**Sun Solaris 8**
Workstation Platform	**MS Windows NT 4, SP5**	✓	✓		✓
	MS Windows 2000, SP2	✓	✓		✓
	MS Windows XP Professional		✓		✓
	Sun Solaris 8				✓

For further details on the supported operating system versions, patch levels and hardware requirements for MISSs and Workstations, please refer to the “Deutsche Börse Front-End Sizing Guidelines - Windows 2000/XP Update”.

1.2 Introduction of GATE Release 3.1

Eurex Release 6.0 software makes use of the GATE Release 3.1 update. The GATE changes are internal; the corresponding Values Call Interface (VCI) versions (CVN_011 and CVN_012) remain unchanged.

With the introduction of Eurex 6.0, the use of GATE Release 3.1 is mandatory. For members using multi-market MISSs with Xetra and Eurex, GATE 3.1 is mandatory as of the introduction of Xetra Release 7.0.

1.3 Java Runtime Environment

With the introduction of Eurex Release 6.0, Eurex upgrades the Java Runtime Environment (JRE) used for the @X-ceed Trading and the @X-tract Clearing GUI to JRE 1.4. This upgrade provides better performance of the GUI applications due to:

- improved focus management
- improved key handling
- improved event handling
- faster activation of pop-up menus
- enhanced performance in update behavior for information displayed in GUI windows
- reduced memory consumption.

Existing logic incorporated in the GUI concerning focus management, key handling and event handling is not affected by the transition to JRE 1.4.

The JRE 1.4 is provided together with the Eurex Release 6.0 Installation Kit and, therefore, is automatically available after installation of the new front-end software.



Usage of JRE 1.4 demands new minimum requirements for the operating system Sun Solaris 8. Instead of "HW Revision 10/00 or higher" now "8/64 bit Hardware Revision 02/02 or higher" is required. Details are announced in Eurex Circular 52/2002.

1.4 Performance and Stability Enhancements of Eurex GUIs

With Eurex Release 6.0 the Eurex GUI software changed to optimize memory consumption and increase performance and stability.

- More efficient memory usage is achieved by improved memory management and enhanced data refreshing mechanisms.
- Better performance is realized by more efficient arithmetic operations, search and sort algorithms, as well as optimized logging mechanisms.

For details, consult the “Deutsche Börse Front-End Sizing Guidelines - Windows 2000/XP Update”.

1.5 User Profile Conversion

Please note that with Eurex Release 6.0 the @X-ceed and @X-tract 5.0 profiles are automatically converted to 6.0 profiles.

2 Technical Enhancements

This chapter gives an overview of the changes that affect the technical environment of the Eurex system.

The technical changes described in this document result from Eurex Release 6.0 system enhancements. Several changes are also driven by functional enhancements, which are described in the "Functional Release Notes" for Eurex Release 6.0.

2.1 Introduction of new Trade Type "D" for Delta Neutral Trading Products

With Eurex Release 6.0, technical changes are introduced in the Eurex system that will support products for simultaneous trading of related option and future contracts to create a delta neutral position for a member. Such products are referred to as “Delta Neutral Trading Products” or DNTP.

For raw data file change details associated with the introduction of DNTP, please refer to chapter 3.

The introduction of DNTP requires the adaptation of several broadcasts exchanged between the back end, communication servers and MISS. In particular, a new trade type “D” is used for DNTP trades. The broadcast changes are reflected by corresponding VALUES changes described in the separate Eurex Release 6.0 VALUES documentation.

Please note that the DNTP-related broadcast changes also affect EurexPTC. The printed trade confirmations have the same layout, but now include the new trade type “D” to identify confirmations associated with DNTP trades.

2.2 Eurex Network Transaction Roundtrip Time Improvements

To improve the performance of the network between the communication servers and the MISS, the broadcast concept is improved with Eurex Release 6.0.

2.2.1 Broadcast Split and Distribution

In a MISS group, the broadcast stream groups can be distributed to various connected broadcast servers, running on separate MISSs. The distribution is managed dynamically and automatically by the back end, and it depends on the number of connected MISSs and the requested broadcast streams.

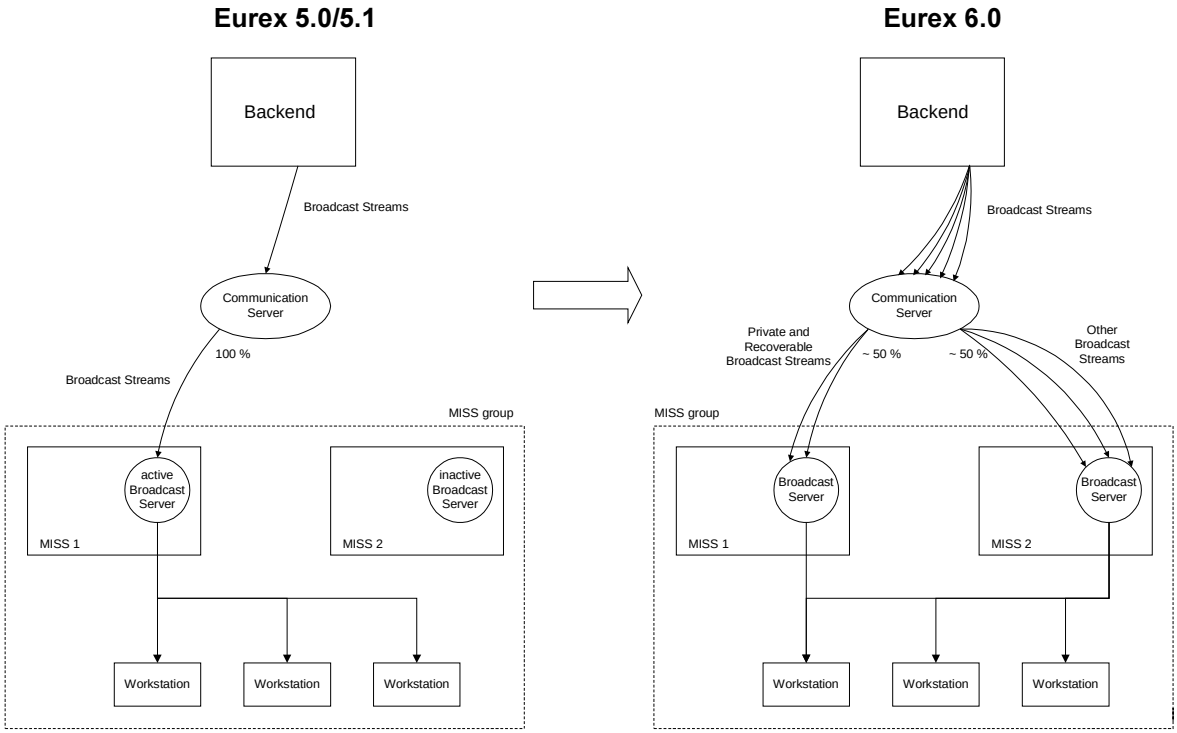
The broadcast split only affects the public inside market broadcast stream between the communication servers and the MISS, i.e. there are no changes of the VALUES-API-based applications regarding broadcast streams and the subscriptions to broadcasts.

The current composition of the public inside market broadcast stream includes, among others, the broadcast types "Market Supervision Info", "Product State Change Info", and "Ticker".

These broadcast types are assigned to a special broadcast group, because these types need to be published to a MISS in all cases. The receipt of this special broadcast group cannot be disabled.

The fail-over capability between several MISSs and the process of subscribing to streams using a subscription list file on the MISS does not change from the perspective of the MISS operator.

The following figure shows the changes in broadcast stream allocation:



Optimum performance is achieved if every MISS in a MISS Group has its “own” leased line.

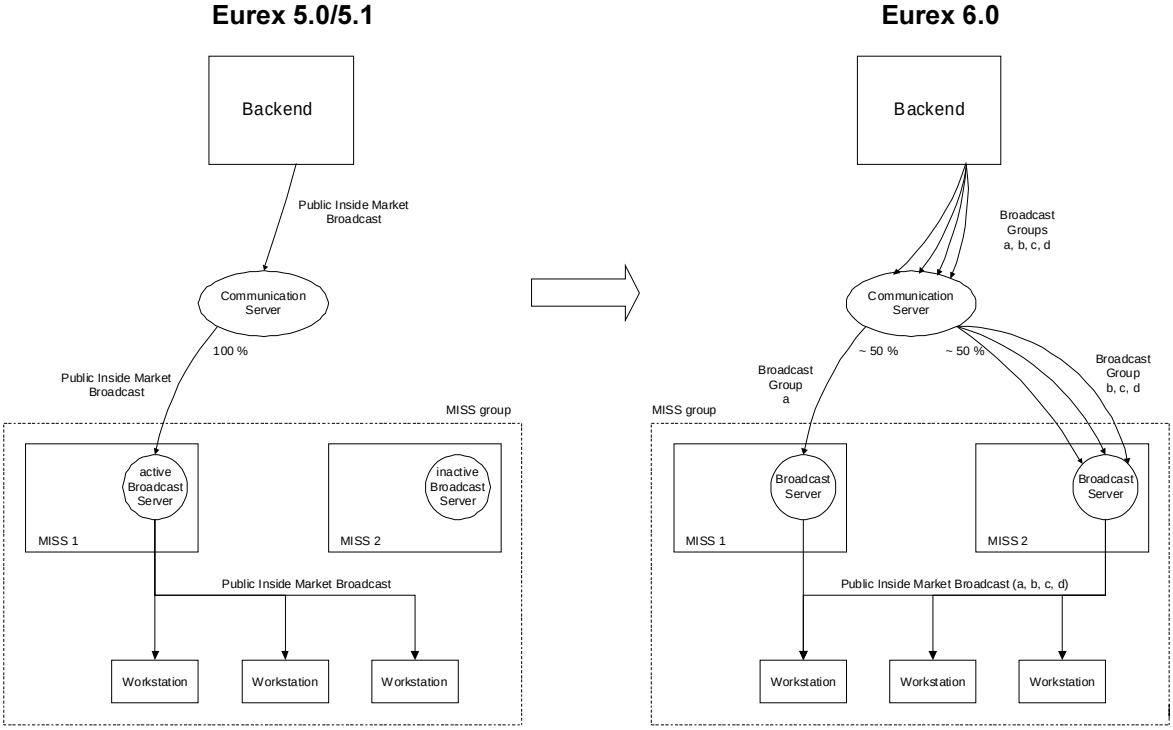
2.2.2 Introduction of Broadcast Stream Groups

The "Public Inside Market" broadcast stream (VALUES API stream code "X") is split into smaller broadcast stream groups. Each broadcast stream group contains the data of a specific group of Eurex products.

Eurex defines and maintains broadcast stream groups by assigning Eurex products to the respective group. Possible examples are a broadcast stream group for German Index Products or for EEX Products, details on the new groups are described in section 2.2.3.

Depending on the definition of the broadcast stream groups and member requirements, the load of the network between the communication servers and the member MISS can be reduced significantly, e.g. a member subscribing only to a specified “EEX broadcast stream group” may significantly reduce the load on his network because only broadcast data related to EEX products is received.

The newly introduced groups of the "Public Inside Market" broadcast stream will also be dynamically balanced, as shown in the following figure:



2.2.3 Broadcast Subscription and Exclusion

The process of subscribing to broadcast streams does not change, but the operator now has the ability to subscribe to streams more specifically. In the subscription list file, *eurexsublist.dat*, the subscription for the public inside market stream named "X" is translated into new broadcast groups.

Each broadcast group has a short group name, e.g. German Index Products is "C", as shown in the table below.

Groups		Interest Rate Futures & Options incl. Money Market	EEX	German Index Products	Supra-national Index Products	HEX	German Equity Products	Swiss Index & Equity Products	Other European Equity Options	US Equity Options	Orderbook Depth Broadcasts, e.g. FDAX, FGBL...
Short Group Name		A	B	C	D	E	F	G	H	I	Z
Number of products	149	4	6	2	23	7	41	27	20	10	9

The operator can selectively stop the distribution by configuring an exclusion list file of broadcast stream groups of no specific interest. This public broadcast group exclusion list is implemented using a new file, *eurexexclist.dat,* on the MISS. The operator of a MISS can maintain this file to exclude unwanted broadcast stream groups from the overall broadcast

reception on the MISS. The default setting is an empty list, respectively an empty file, i.e. no broadcasts are excluded.

Example:

Member ABCFR only wants to subscribe the German Index and Equity Products (broadcast groups C and F) from the public inside market broadcast stream. To achieve this, he first subscribes to the Public Inside Market Broadcast Stream "X" by adding ABCFRX to the *eurexsublist.dat* file. To exclude all broadcast groups except German Index and Equity products, the member then adds the letters “A, B, D, E, G, H, I and Z” to the *eurexexclist.dat* file, as shown in the Eurex 6.0 Front End Operations Guide available by September 2002.

Furthermore, a new tool called "eurexIMKTBcastGroups″ is available on the MISS to provide the operator with information about the current settings. This information, i.e. which product information is published by which broadcast stream group, is taken from the reference file "ref.dat".

Since the distribution of the new broadcast stream groups is dynamically balanced between several MISSs in a MISS group, all MISSs of the group have to use the same subscription list with the same exclusions of broadcast groups.

The initial configuration of the subscription and exclusion list files *eurexsublist.dat* and *eurexexclist.dat* is done during installation of the Eurex Release 6.0 software kit, as described in the Eurex 6.0 Front End Installation Guide available by September 2002.

2.3 Introduction of new Transaction Types

With Eurex Release 6.0, there are two new transaction types, as follows:

- The new transaction type "107" is used for partial position transfers with cash amount. Details are described in the "Functional Release Notes" for Eurex 6.0.
- The new transaction type "230" is used for the interest on cash margin functionality. Details are described in the "Functional Release Notes" for Eurex 6.0.

3 Raw Data Report Changes and File Interface Modifications

A summary of all report changes and modifications is contained in the "Functional Release Notes" for Eurex Release 6.0.

The raw data reports contain report data in a stream-like form that can be processed by in-house applications on the member side. In general, the raw data reports have the same content as the regular reports, except for the following:

- The key record contains additional information, e.g. environment number or product code.
- In the data area, decimal places must be adjusted for floating point fields.

With Eurex Release 6.0, several new raw data reports are provided for members. All new or modified raw data report file formats are outlined below.

3.1 Raw Data Format Specification

In the following, the file format of the raw data reports is described using the common COBOL syntax. Some examples are given here for clarification.

Format Identifier	Description
PIC X(N)	Alphanumeric data field containing N characters
PIC X(1) resp. PIC X	Alphanumeric data field containing one single character
PIC X(2) resp. PIC XX	Alphanumeric data field with 2 characters
PIC 9(N)	Unsigned numeric data field containing N digits, leading zeros are displayed
PIC 9(2) resp. PIC 99	Unsigned numeric data field containing 2 digits.
PIC 9(7).9(3)	Unsigned numeric data field containing 7 digits before and 3 digits after the decimal point. All leading and trailing zeros are displayed
PIC 9(7).999	Same as PIC 9(7).9(3)
PIC -9.99	Signed numeric data field displaying a maximum of 2 digits before and 2 digits after the decimal point. Maximum numeric value of this field is 99.99, the minimum numeric value of this field is -9.99. Leading zeros are suppressed, e.g. a value of 05.67 is shown as " 5.67".
PIC –(6)9.999	Signed numeric data field with 7 characters (including minus sign) before and 3 digits after the decimal point. Leading and trailing zeros are not displayed (they are suppressed). At least 1 digit before and 3 digits after the decimal point shown.
PIC –(4)9	Signed numeric data field with 5 digits (including minus sign), with at least 1 digit shown

3.2 Changed Raw Data Report: Position Detail (RAWCB010)

The associated “Position Detail” report (RPTCB010) contains opening positions, daily position movements, including associated fees, and up-to-date positions for option series and futures contracts. Variation margin payments are also reported here.

With Eurex Release 6.0 the clearing report is enhanced to show all free format text fields as well as a special trade type flag for delta neutral trades. The corresponding raw data report, RAWCB010, reflects these changes.

Modifications to Eurex Release 5.0 are **marked bold**.

Field	Format	Description
RAW-ID-COD-RWCB010	PIC X(8)	This field contains the identification code of the raw data stream. Values include: RAWCB010 - valid data record ENDCB010 - end of raw data stream
RAW-EFF-DAT-RWCB010	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB010	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCB010	PIC X(2)	This field identifies the environment of this raw data file. Possible values are: 00 - production environment 01 - simulation environment
MEMB-CLG-ID-COD-RWCB010	PIC X(5)	This field contains the identification code of the clearing member.
MEMB-EXC-ID-COD-RWCB010	PIC X(5)	This group field contains the identification code of the exchange member.
CURR-TYP-COD-RWCB010	PIC X(3)	This field contains the identification code of the currency.
ACCT-TYP-COD-GRP-RWCB010	PIC X(2)	This field contains the account type. Field values include: A1 – Agent P1 – Principal 1 M1 – Market Maker 1 P2 – Principal 2 M2 – Market Maker 2
PROD-TYP-COD-GRP-RWCB010	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".

Field	Format	Description
SECU-ID-COD-RWCB010	PIC X(4)	This field contains the unique identification code that the exchange assigns to the product.
SERI-CLAS-COD-RWCB010	PIC X(1)	This field contains the class of an options series. Field values include: C – Call P – Put This field is blank for futures products.
SERI-EXP-DAT-RWCB010	PIC 9(4)	This field contains the year and month when an options series expires or a futures contract is settled. The format of this field is YYMM.
EXER-PRC-RWCB010	PIC 9(5)	This field contains the price at which an options series can be exercised. This field is zero for futures contracts.
SERI-VERS-NO-RWCB010	PIC 9(1)	This field contains the version number assigned to each options series at creation.
REPT-REC-TYP-COD-RWCB010	PIC 9(1)	This field identifies the record type code. Valid values include: 0 - identifies the end of raw data 1 - detail header including MK-TO-MKT-TICKS 2 - detail header, without the fields MK-TO-MKT-TICKS and PREM-VMAR-AMT-RWCB010 filled 3 - detail line including field MK-TO-MKT-TICKS 4 - detail line without the field MK-TO-MKT-TICKS-RWCB010 filled. 5 - detail line without without the fields MK-TO-MKT-TICKS-RWCB010, PREM-VMAR-AMT-RWCB010 and TRAD-MATCH-PRC-RWCB010 filled 6 - detail line without the field TRAD-MATCH-PRC-RWCB010 filled. 7 - detail text
TRAN-ID-NO-RWCB010	PIC 9(6)	Transaction number
CURRENT-SFX-ID-RWCB010	PIC 9(5)	Current suffix ID
ORDR-NO-RWCB010	PIC 9(9)	This field contains a unique number to identify the order, or zero for an OTC block trade.

Field	Format	Description
TEXT-IND-RWCB010	**PIC 9(1)**	**This field contains an indicator to identify whether the free format text fields *Text*, *Customer* and *Member internal order number* are included in the record (see below). Valid values are: '0' = no text fields '1' = text field row inserted**
POST-LNG-TOT-BAL-RWCB010	PIC –(9)9	This field contains the total long position balance at the beginning of the current business day.
POST-SHT-TOT-BAL-RWCB010	PIC –(9)9	This field contains the short position balance at the beginning of the current business day.
NET-POS-RWCB010	PIC –(9)9	This field contains the net position.
NET-POS-IND-RWCB010	PIC X	This field contains the net position indicator. Valid values are: 'S' = short 'L' = long ' ' = balanced
LST-STL-PRC-RWCB010	PIC X(11)	This field contains the settlement price of the previous business day.
CURR-STL-PRC-RWCB010	PIC X(11)	This field contains the settlement price of the current business day.
TRAN-TYP-COD-RWCB010	PIC X(3)	This field contains a code that identifies the transaction type. For possible values see the appendix of the "Eurex Report Reference Manual".
ORDR-BUY-COD-RWCB010	PIC X(1)	This field indicates whether the order is a buy or sell order. Field values are: 'B' = Buy 'S' = Sell
OPEN-COD-RWCB010	PIC X(1)	This field indicates if the matched order was specified as an opening or closing transaction. Field values are: 'O' = Open 'C' = Close
ORDR-CMB-TRD-TYP-COD-RWCB010	PIC X(1)	This field contains the trade type for single leg orders and the combination type for double leg orders. For possible values see the appendix of the "Eurex Report Reference Manual".

Field	Format	Description
TRAN-LNG-QTY-RWCB010	PIC –(9)9	This field contains a movement in the long position due to a position transaction (i.e. trade).
TRAN-SHT-QTY-RWCB010	PIC –(9)9	This field contains a movement in the short position due to a position transaction (i.e. trade).
TRAD-MATCH-PRC-RWCB010	PIC X(11)	This field contains the price at which two orders, two quotes or an order and a quote are matched by the Eurex system. See also the restrictions shown in REPT-REC-TYP-COD-RWCB010.
MEMB-EXC-USR-ID-COD-RWCB010	PIC X(5)	This group field contains the identification code of the exchange member. If an order is entered “on behalf”, this field contains the member entering the order.
PART-ID-COD-RWCB010	PIC X(6)	This group field contains the identification code of the trader. It is only filled for transaction types 002, 003, 004 , 006, 100, 102, 110, 112, 120 and 122.
CURR-LNG-TOT-BAL-RWCB010	PIC –(9)9	This field contains the total long position balance at the end of the current business day.
CURR-SHT-TOT-BAL-RWCB010	PIC –(9)9	This field contains the total short position balance at the end of the current business day.
MK-TO-MKT-TICKS-RWCB010	PIC –(7)9.9(2)	This field contains the number of minimal price movements between the exercise price of a series and the settlement price of the current business day. See also the restrictions shown in REPT-REC-TYP-COD-RWCB010.
PREM-VMAR-AMT-RWCB010	PIC -(15)9.9(2)	For options products, this field contains the premium amount of a trade. For futures products, this field contains the variation margin, which is the difference between the settlement price of the current business day and, in case of a trade, the trade price or, in case of an already existing position, the settlement price of the previous business day. See also the restrictions shown in REPT-REC-TYP-COD-RWCB010.
FEES-BY-UNIT-RWCB010	PIC –(7)9.9(2)	This field contains the fee amount per contract.

Field	Format	Description
TRAN-FEE-AMT-RWCB010	PIC –(7)9.9(2)	This field contains the total fee amount by transaction.
SECU-TRD-UNT-NO-RWCB010	PIC 9(4).9(4)	This field contains the contract size.
TICK-SIZE-RWCB010	PIC X(6)	This field contains the minimum price variation.
VALUE-PER-TICK-RWCB010	PIC 9(4).99	This field contains the value of the minimal price variation.
TRADE-TYPE-FLAG-RWCB010	PIC X(1)	This field contains a flag to specify the type of trade: ‘B’ = Basis Trade ‘O’ = Block Trade ‘E’ = EFP Trade ‘V’ = Vola Trade **'D' = DNTP Trade** ‘ ‘ = Other trade
PARENT-SFX-ID-RWCB010	PIC 9(5)	This field contains the parent suffix ID.
TRAN-ADJ-IND-COD-RWCB010	PIC X(1)	This field contains the trade adjustment/reverse indication (A/R).
HIST-ADJ-IND-COD-RWCB010	PIC X(1)	This field contains the historical indication (“H” or blank).
ORDER-TEXT-RWCB010	**PIC X(12)**	**This field contains the free format text field *Text.***
CUST-TEXT-RWCB010	**PIC X(12)**	**This field contains the free format text field *Customer.***
MIORDNO-TEXT-RWCB010	**PIC X(12)**	**This field contains the free format text field *Member internal order number.***
FILLER	**PIC X(167)**	**This field contains filling characters, e.g. blanks.**

3.3 New Raw Data Report: Fee Overall Summary (RAWCB050)

The associated clearing report RPTCB050 has been provided exclusively to Clearing Members until now. With Eurex Release 6.0 the regular report is also available for NCMs.

Field	Format	Description
RAW-ID-COD-RWCB050	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB050 - valid data record ENDCB050 - end of raw data stream
RAW-EFF-DAT-RWCB050	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB050	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCB050	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB050	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCB050	PIC X(5)	The identification code of the Exchange Member.
CURR-TYP-COD-RWCB050	PIC X(3)	The currency code of the product.
ACCT-TYP-COD-GRP-RWCB050	PIC X(2)	Account type
PROD-TYP-COD-GRP-RWCB050	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".
SECU-ID-COD-RWCB050	PIC X(4)	Identification of the security.
FEES-TYP-COD-GRP-RWCB050	PIC X(3)	Fee type code as shown in the appendix "Fee Types" of the "Eurex Report Reference Manual".
REPT-REC-TYP-COD-RWCB050	PIC 9(1)	Raw data record type code. The field value is always "1".
MEMB-PRV-DAY-FEE-BAL-RWCB050	PIC –(8)9.99	Current month's fees at previous day's value per fee type.
MEMB-CRT-FEE-BAL-RWCB050	PIC –(8)9.99	Current day's fees sorted per fee type.

Field	Format	Description
FEES-ADJ-CRT-DAY-BAL-RWCB050	PIC –(8)9.99	Current day's adjusted fee amount per fee type.
MEMB-FEE-PAY-AMT-RWCB050	PIC –(8)9.99	Current day's fees per fee type.
MEMB-PRV-MTH-FEE-AMT-RWCB050	PIC –(8)9.99	Previous month's calculated fees per fee type.
MEMB-YTD-FEE-AMT-RWCB050	PIC –(8)9.99	Current year's calculated fees at previous month's value per fee type.

3.4 New Raw Data Report: Premium Overall Summary (RAWCB090)

The associated clearing report RPTCB090 already exists. With Eurex Release 6.0 the report will also be delivered in raw data format.

Field	Format	Description
RAW-ID-COD-RWCB090	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB090 - valid data record ENDCB090 - end of raw data stream
RAW-EFF-DAT-RWCB090	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB090	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCB090	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB090	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCB090	PIC X(5)	The identification code of the Exchange Member.
CURR-TYP-COD-RWCB090	PIC X(3)	Currency of the premium.
ACCT-TYP-COD-GRP-RWCB090	PIC X(2)	Account type
REPT-REC-TYP-COD-RWCB090	PIC 9(1)	Raw data record type code. The field value is always "1".

Field	Format	Description
PREM-PAY-BAL-RWCB090	PIC –(14)9.99	Current premium debit balance
PREM-RCV-BAL-RWCB090	PIC –(14)9.99	Current premium credit balance
PREM-NET-BAL-RWCB090	PIC –(14)9.99	Current net premiums per account type; a positive amount means received premiums; a negative amount means paid premiums.
PREM-MTH-BAL-RWCB090	PIC –(11)9.99	Current month's net premium per underlying; a positive amount means received premiums; a negative amount means paid premiums.
PREM-PRV-MTH-BAL-RWCB090	PIC –(11)9.99	Previous month's net premium per account type; a positive amount means received premiums; a negative amount means paid premiums.
PREM-YTD-BAL-RWCB090	PIC –(12)9.99	Accumulated net premiums of the current year per account type; a positive amount means received premiums; a negative amount means paid premiums.

3.5 New Raw Data Report: Variation Margin Summary (RAWCB095)

The associated clearing report, RPTCB095, already exists. With Eurex Release 6.0, this report is available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCB095	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB095 - valid data record ENDCB095 - end of raw data stream
RAW-EFF-DAT-RWCB095	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB095	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCB095	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB095	PIC X(5)	The identification code of the Clearing Member.

Field	Format	Description
MEMB-EXC-ID-COD-RWCB095	PIC X(5)	The identification code of the Exchange Member.
CURR-TYP-COD-RWCB095	PIC X(3)	Currency code of the margin.
ACCT-TYP-COD-GRP-RWCB095	PIC X(2)	Account type
REPT-REC-TYP-COD-RWCB095	PIC 9(1)	Raw data record type code. The field value is always "1".
VMAR-PAY-BAL-RWCB095	PIC –(10)9.99	Variation margin requirement of the effective report day by account type.
VMAR-RCV-BAL-RWCB095	PIC –(10)9.99	Variation margin credit of the effective report day by account type
VMAR-NET-BAL-RWCB095	PIC –(10)9.99	Net variation margin on the effective report day by account type.
VMAR-MTH-BAL-RWCB095	PIC –(11)9.99	Accumulated net variation margin for the effective current month by account type.
VMAR-PRV-MTH-BAL-RWCB095	PIC –(11)9.99	Accumulated net variation margin for the previous month by account type.
VMAR-YTD-BAL-RWCB095	PIC –(12)9.99	Accumulated net variation margin by account type for the year of the effective business day.

3.6 New Raw Data Report: Internal Position Limit (RAWCB105)

With the introduction of Eurex Release 6.0, the new "Internal Position Limit" report is available to members as a regular report, RPTCB105, and as raw data report, RAWCB105.

Field	Format	Description
RAW-ID-COD-RWCB105	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB105 - valid data record ENDCB105 - end of raw data stream
RAW-EFF-DAT-RWCB105	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB105	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.

Field	Format	Description
ENV-NO-TXT-RWCB105	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB105	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCB105	PIC X(5)	The identification code of the Exchange Member.
PROD-TYP-COD-GRP-RWCB105	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".
SECU-ID-COD-RWCB105	PIC X(4)	Name of the security.
POS-LIM-TYP-COD-RWCB105	PIC X(1)	Position limit type code. This field is currently not used, it is empty.
POST-LIM-QTY-RWCB105	PIC –(7)9	Position limit quantity
ACCT-TYP-COD-GRP-RWCB105	PIC X(2)	Account type (A1 or PP)
REPT-REC-TYP-COD-RWCB105	PIC 9(1)	Raw data record type code. The field value is always "1".
POST-LNG-BAL-RWCB105	PIC –(9)9	Number of contracts in long positions per account type.
POST-SHT-BAL-RWCB105	PIC –(9)9	Number of contracts in short positions per account type.
NET-FUT-POST-RWCB105	PIC –(9)9	Number of contracts, net positions per account type.
POST-LIM-EXCE-RWCB105	PIC –(9)9	Display whether the number of positions exceeds the position limit.
NET-POS-IND-RWCB105	PIC X(1)	Net position indicator. Valid values are: 'L' = long 'S' = short ' ' = balanced

3.7 New Raw Data Report: Accepted Give-Up Trades (RAWCB140)

The associated clearing report, RPTCB140, already exists. With Eurex Release 6.0, the report is available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCB140	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB140 - valid data record ENDCB140 - end of raw data stream
RAW-EFF-DAT-RWCB140	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB140	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCB140	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB140	PIC X(5)	The identification code of the give-up Clearing Member.
MEMB-EXC-ID-COD-RWCB140	PIC X(5)	The identification code of the Exchange Member.
TO-MEMB-RWCB140	PIC X(5)	Identification code of the receiving member.
CURR-TYP-COD-RWCB140	PIC X(3)	Currency code of the product.
ACCT-TYP-COD-GRP-RWCB140	PIC X(2)	Type of the give-up account (A1, G1 or G2).
PROD-TYP-COD-GRP-RWCB140	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".
		The code of the series or name of the contract. It contains:
SECU-ID-COD-RWCB140	PIC X(4)	Code of the underlying/security
SERI-CLAS-COD-RWCB140	PIC X(1)	Class of the options contracts (call/put), empty for futures
EXPI-YR-DAT-RWCB140	PIC 9(2)	Expiration year of the contract
EXPI-MTH-DAT-RWCB140	PIC 9(2)	Expiration month of the contract
EXER-PRC-RWCB140	PIC 9(6)	Exercise price (options only)
SERI-VERS-NO-RWCB140	PIC 9(1)	Code showing whether the contract is original (0) or adjusted (1-9)

Field	Format	Description
ORDR-NO-RWCB140	PIC 9(9)	Order number of the trade
TRAN-ID-NO-RWCB140	PIC 9(6)	Transaction number.
CURRENT-SFX-ID-RWCB140	PIC 9(5)	Current suffix ID, which indicates the number of adjustments made to the original transaction.
TRAN-DAT-RWCB140	PIC 9(8)	Transaction date the order was matched. The format of this field is YYYYMMDD.
ORDR-BUY-COD-RWCB140	PIC X(1)	Code for buy (B) or sell (S)
OPEN-COD-RWCB140	PIC X(1)	Code for opening (O) or closing (C)
TRD-TYP-COD-RWCB140	PIC X(1)	Trade type: ’B’ = Basis Trade ’O’ = OTC Block Trade ’E’ = EFP Trade (EEX only) ’V’ = OTC Vola Trade **'D' = DNTP Trade** ’ ’ = On-exchange trade
TRAN-QTY-RWCB140	PIC 9(6)	Number of contracts
TRAD-MTCH-PRC-RWCB140	PIC –(9)9	Trading price
GIVE-UP-STS-RWCB140	PIC X(1)	Status of give-up trade at respective time: 'P' = PREDESIGNATED,Trade marked "G1", but not yet a give-up 'G' = GIVEN-UP, Give-up trade, but not yet a take-up 'U' = UNDESIGNATED, Give-up status temporarily deleted 'R' = REJECTED, Give-up trade rejected by recipient 'N' = TAKEN-UP, Give-up trade accepted by recipient 'D' = DELETED, Give-up trade deleted 'M' = GU-ACCEPTED, Give-up accepted by clearing member 'T' = TU-ACCEPTED, Take-up accepted by clearing member

Field	Format	Description
		Reference text fields from Give-Up:
GIVE-UP-REF-CUST-RWCB140	PIC X(12)	Free format text field *CUSTOMER*
GIVE-UP-REF-UORD-RWCB140	PIC X(12)	Free format text field *USR-ORDR-NO*
GIVE-UP-REF-TEXT-RWCB140	PIC X(12)	Free format text field *TEXT*
CUSTOMER-FROM-RWCB140	PIC X(12)	Free format text field *CUSTOMER*
USER-ORD-NUM-FROM-RWCB140	PIC X(12)	Free format text field *USR-ORDR-NO*
TEXT-FROM-RWCB140	PIC X(12)	Free format text field *TEXT*
CURRENT-SFX-ID-FROM-RWCB140	PIC 9(5)	Suffix ID of the parent transaction.
PART-USR-ID-COD-FROM-RWCB140	PIC X(6)	Code of the user who entered the give-up.
GU-FEE-RWCB140	PIC 9(3).99	Fee charged for give-up
DISP-DECIMAL-RWCB140	PIC –(4)9	Displayed decimals
HIST-ADJ-IND-COD-FROM-RWCB140	PIC X(1)	Historical trade adjustment indicator (“H” or blank)

3.8 New Raw Data Report: Accepted Take-Up Trades (RAWCB160)

The associated clearing report, RPTCB160, already exists. With Eurex Release 6.0, the report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCB160	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB160 - valid data record ENDCB160 - end of raw data stream
RAW-EFF-DAT-RWCB160	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCB160	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.

Field	Format	Description
ENV-NO-TXT-RWCB160	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCB160	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCB160	PIC X(5)	The identification code of the taking up Exchange Member.
FROM-MEMB-RWCB160	PIC X(5)	Code of the Exchange Member giving up the trade.
CURR-TYP-COD-RWCB160	PIC X(3)	Currency code of the product.
ACCT-TYP-COD-GRP-RWCB160	PIC X(2)	Type of the take-up account (A1, G1, G2).
PROD-TYP-COD-GRP-RWCB160	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".
		The code of the series or name of the contract. It contains:
SECU-ID-COD-RWCB160	PIC X(4)	Code of the underlying/security
SERI-CLAS-COD-RWCB160	PIC X(1)	Class of the options contracts (call/put), empty for futures
EXPI-YR-DAT-RWCB160	PIC 9(2)	Expiration year of the contract
EXPI-MTH-DAT-RWCB160	PIC 9(2)	Expiration month of the contract
EXER-PRC-RWCB160	PIC 9(6)	Exercise price (options only)
SERI-VERS-NO-RWCB160	PIC 9(1)	Code showing whether the contract is original (0) or adjusted (1-9)
ORDR-NO-RWCB160	PIC 9(9)	Order number of the trade
TRAN-ID-NO-RWCB160	PIC 9(6)	Transaction number
CURRENT-SFX-ID-NO-RWCB160	PIC 9(5)	Current suffix ID, which indicates the number of adjustments made to the original transaction.
TRAN-DAT-RWCB160	PIC 9(8)	Transaction date the trade was matched. The format of this field is YYYYMMDD.
ORDR-BUY-COD-RWCB160	PIC X(1)	Code for buy (B) or sell (S)
OPEN-COD-RWCB160	PIC X(1)	Code for opening (O) or closing (C)

Field	Format	Description
TRD-TYP-COD-RWCB160	PIC X(1)	Trade type of the order: 'B' = Basis Trade 'O' = OTC Block Trade 'E' = EFP Trade (EEX only) 'V' = OTC Vola Trade **'D' = DNTP Trade** ' ' = On-exchange trade
TRAN-QTY-RWCB160	PIC 9(6)	Number of contracts
TRAD-MTCH-PRC-RWCB160	PIC –(9)9	Trading price
GIVE-UP-STS-RWCB160	PIC X(1)	Give-up status
		Reference text fields from Give-Up:
GIVE-UP-REF-CUST-RWCB160	PIC X(12)	Free format text field *CUSTOMER*
GIVE-UP-REF-UORD-RWCB160	PIC X(12)	Free format text field *USR-ORDR-NO*
GIVE-UP-REF-TEXT-RWCB160	PIC X(12)	Free format text field *TEXT*
CUSTOMER-RCV-RWCB160	PIC X(12)	Free format text field *CUSTOMER*
USER-ORD-NUM-RCV-RWCB160	PIC X(12)	Free format text field *USR-ORDR-NO*
TEXT-RCV-RWCB160	PIC X(12)	Free format text field *TEXT*
CURRENT-SFX-ID-RCV-RWCB160	PIC 9(5)	Suffix ID
PART-USR-ID-COD-FROM-RWCB160	PIC X(6)	Code of the user who entered the take-up.
TU-FEE-RWCB160	PIC 9(3).9(2)	Fee charged for take-up
DISP-DECIMAL-RWCB160	PIC –(4)9	Displayed decimals
HIST-ADJ-IND-COD-RCV-RWCB160	PIC X(1)	Historical trade adjustment indicator ("H" or blank)

3.9 New Raw Data Report: Additional Margin (RAWCC045)

The associated risk management report, RPTCC045, already exists. With Eurex Release 6.0, this report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCC045	PIC X(8)	The identification code of the raw data stream. Values include: RAWCC045 - valid data record ENDCC045 - end of raw data stream
RAW-EFF-DAT-RWCC045	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCC045	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCC045	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCC045	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCC045	PIC X(5)	The identification code of the Exchange Member.
CLG-CURR-TYP-COD-RWCC045	PIC X(3)	Currency used by the Clearing Member.
ACCT-TYP-COD-GRP-RWCC045	PIC X(2)	Account type (A1 or PP).
MGN-GRP-COD-RWCC045	PIC X(5)	Name of margin group
MGN-CLS-COD-RWCC045	PIC X(5)	Name of the margin class
MGN-CLS-CURR-RWCC045	PIC X(3)	Currency of the margin class
ADD-MGN-UP-AMT-RWCC045	PIC –(12)9.99	This highest absolute value of the higher interval range resulting from the calculation of the liquidation value.
ADD-MGN-DOWN-AMT-RWCC045	PIC –(12)9.99	This highest absolute value of the lower interval range resulting from the calculation of the liquidation value.
EXCH-RATE-RWCC045	PIC 9(7).9(6)	Exchange rate

Field	Format	Description
GRP-OFF-SET-RECC045	PIC -9.99	"Offset Factor", the degree of correlation between margin classes of a margin group. It is used as a multiplier for negative additional margin amounts before they are used to calculate the additional margin of the margin class.
ADJ-ADD-UP-AMT-RWCC045	PIC –(12)9.99	Amount of additional margin of the higher interval range; multiplied by the Offset Factor if negative; multiplied by 1 if positive (in the currency used by the clearing member).
ADJ-ADD-DOWN-AMT-RWCC045	PIC –(12)9.99	Amount of additional margin of the lower interval range; if negative it is multiplied by Offset Factor, if positive it is left unchanged. The margin is in the currency used by the Clearing Member.
MGN-ADDL-AMT-RWCC045	PIC –(12)9.99	The larger of the adjusted additional margin amounts of the lower and higher interval range.

3.10 New Raw Data Report: Daily Margin (RAWCC050)

The associated risk management report, RPTCC050, already exists. With Eurex Release 6.0, this report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCC050	PIC X(8)	The identification code of the raw data stream. Values include: RAWCC050 - valid data record ENDCC050 - end of raw data stream
RAW-EFF-DAT-RWCC050	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCC050	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCC050	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCC050	PIC X(5)	The identification code of the Clearing Member.

Field	Format	Description
MEMB-EXC-ID-COD-RWCC050	PIC X(5)	The identification code of the Exchange Member.
CURR-TYP-COD-RWCC050	PIC X(3)	Currency code of the product
ACCT-TYP-COD-GRP-RWCC050	PIC X(2)	Account type
MGN-GRP-COD-RWCC050	PIC X(5)	Name of margin group
MGN-CLS-COD-RWCC050	PIC X(5)	Name of the margin class
MGN-PREMIUM-AMT-RWCC050	PIC –(14)9.99	Premium margin amount for the option positions contained in a margin class or margin group. Long positions (margin credit) are negative amounts. Short positions (margin debits) are positive amounts.
MGN-SPRD-AMT-RWCC050	PIC –(14)9.99	Spread margin amount
MGN-ADDL-AMT-RWCC050	PIC –(12)9.99	The higher of the adjusted additional margin amounts of the lower and higher interval range.
UNADJ-MGN-REQ-RWCC050	PIC –(12)9.99	Unadjusted margin requirement per margin class or group; sum of the premium, spread and additional margin.

3.11 New Raw Data Report: Daily Margin Summary (RAWCC060)

The associated risk management report, RPTCC060, already exists. With Eurex Release 6.0, this report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCC060	PIC X(8)	The identification code of the raw data stream. Values include: RAWCC060 - valid data record ENDCC060 - end of raw data stream
RAW-EFF-DAT-RWCC060	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCC060	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.

Field	Format	Description
ENV-NO-TXT-RWCC060	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCC060	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCC060	PIC X(5)	The identification code of the Exchange Member.
RAW-CURR-TYP-COD-RWCC060	PIC X(3)	Currency code of the margin.
ACCT-TYP-COD-GRP-RWCC060	PIC X(2)	Account type (A1 or PP).
MGN-PREMIUM-AMT-RWCC060	PIC –(14)9.99	Premium margin amount for the option positions contained in a margin class or margin group. Long positions (margin credit) are negative. Short positions (margin debits) are positive.
MGN-SPRD-AMT-RWCC060	PIC –(14)9.99	Spread margin amount
MGN-ADDL-AMT-RWCC060	PIC –(14)9.99	Additional margin amount for a margin class or group.
MGN-UNADJ-REQ-RWCC060	PIC –(14)9.99	Unadjusted margin requirement per margin class or group; sum of the premium, spread and additional margins.
MGN-TOT-REQ-RWCC060	PIC –(14)9.99	Sum of the effective margin requirement per type of account; effective margin requirement is counted as nil since a margin balanced between various accounts of a clearing member is not allowed.

3.12 New Raw Data Report: Monthly Interest (RAWCD230)

The associated clearing report, RPTCD230, is new to Eurex Release 6.0. This report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCD230	PIC X(8)	The identification code of the raw data stream. Values include: RAWCD230 - valid data record ENDCD230 - end of raw data stream

Field	Format	Description
RAW-EFF-DAT-RWCD230	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCD230	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCD230	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMBER-ID-RWCD230	PIC X(5)	The identification code of the Member.
Q_MEMBER_NAME-RWCD230	PIC X(40)	Member name.
Q_CURRENCY-RWCD230	PIC X(3)	Currency code.
Q_DATE-RWCD230	PIC 9(8)	Date for which the interest is calculated. The format of this field is YYYYMMDD.
Q_CASH_BALANCE-RWCD230	PIC -(16)9.9(2)	Cash balance on the date of calculation.
Q_INT_FREE_LIM-RWCD230	PIC -(16)9.9(2)	Interest-free limit on the date of calculation.
Q_CALC_INT_ON-RWCD230	PIC -(16)9.9(2)	Interest calculation basis, this is the amount that exceeds the interest-free limit.
Q_INTEREST_RATE-RWCD230	PIC -(13)9.9(5)	Applicable interest rate on the date of calculation.
Q_INTEREST-RWCD230	PIC -(16)9.9(2)	Daily interest amount.

3.13 New Raw Data Report: Pending Delivery (RAWCE080)

The associated clearing report, RPTCE080, already exists. With Eurex Release 6.0, this report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCE080	PIC X(8)	The identification code of the raw data stream. Values include: RAWCE080 - valid data record ENDCE080 - end of raw data stream
RAW-EFF-DAT-RWCE080	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.

Field	Format	Description
RAW-CRT-PROC-DAT-RWCE080	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCE080	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCE080	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCE080	PIC X(5)	The identification code of the Exchange Member.
CURR-TYP-COD-RWCE080	PIC X(3)	The identification code for the currency of the product.
PROD-TYP-COD-GRP-RWCE080	PIC X(4)	The product type code as shown in the appendix "Product Types" of the "Eurex Report Reference Manual".
DELV-DUE-DAT-RWCE080	PIC 9(8)	Due date of the delivery. The format of this field is YYYYMMDD.
SECU-ID-PFX-NO-RWCE080	PIC X(12)	ISIN of the product.
		The code of the series or name of the contract. It contains:
SECU-ID-COD-RWCE080	PIC X(4)	Code of the underlying/security
SERI-CLAS-COD-RWCE080	PIC X(1)	Class of the options contracts (call/put), empty for futures
EXPI-YR-DAT-RWCE080	PIC 9(2)	Expiration year of the contract
EXPI-MTH-DAT-RWCE080	PIC 9(2)	Expiration month of the contract
EXER-PRC-RWCE080	PIC 9(6)	Exercise price (options only)
SERI-VERS-NO-RWCE080	PIC 9(1)	Code showing whether the contract is original (0) or adjusted (1-9)
ADJU-STS-COD-RWCE080	PIC 9(1)	Adjustment identifier showing if the order was adjusted due to a capital adjustment (1-9). If there is no capital adjustment, the value of the identifier is blank.
DELV-CLG-HSE-TRN-NO-RWCE080	PIC 9(7)	Delivery transaction number
ACCT-TYP-COD-GRP-RWCE080	PIC X(2)	Account type

Field	Format	Description
DELV-RCV-HSE-SHR-QTY-RWCE080	PIC –(9)9.999	Nominal value of the government bond futures or number of shares that a member receives (positive number) or delivers (negative number) per transaction.
DELV-RCV-HSE-PAY-AMT-RWCE080	PIC –(10)9.99	Amount to be received/paid due to exercise or assignment. Positive number is to be received, negative number is to pay.
CASH-STL-AMT-RWCE080	PIC –(10)9.99	Cash settlement amount a member receives (positive number) or pays (negative number) per transaction.
TRAN-DAT-RWCE080	PIC 9(8)	Exercise date. The format of this field is: YYYYMMDD.
REMARK-RWCE080	PIC X(6)	Remark, valid values include "STORNO" – late delivery cancellation "FORCED" – forced delivery
CSD-ID-RWCE080	PIC X(6)	This field contains the ID of the CSD which is used to process the Delivery vs. Payment / Receive vs. Payment instructions. This CSD-ID depends on the clearing member and underlying.
CSD-ACCOUNT-RWCE080	PIC X(12)	This field contains the CSD account number which is used for Delivery vs. Payment / Receive vs. Payment. The account can be an own account or an account from a custodian bank The specified account is dependent from the clearing member and underlying.
CUSTODIAN-ID-RWCE080	PIC X(5)	If a custodian account is used, this field contains the ID of the custodian bank. If an own account is used, this field contains blanks.

3.14 New Raw Data Report: Settled Delivery (RAWCE100)

The associated clearing report RPTCE100 already exists. With Eurex Release 6.0, this report is also available in raw data format.

Field	Format	Description
RAW-ID-COD-RWCE100	PIC X(8)	The identification code of the raw data stream. Values include: RAWCE100 - valid data record ENDCE100 - end of raw data stream

Field	Format	Description
RAW-EFF-DAT-RWCE100	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWCE100	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.
ENV-NO-TXT-RWCE100	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MEMB-CLG-ID-COD-RWCE100	PIC X(5)	The identification code of the Clearing Member.
MEMB-EXC-ID-COD-RWCE100	PIC X(5)	The identification code of the Exchange Member.
SECU-ID-PXF-NO-RWCE100	PIC X(12)	The unique identification code that the exchange has assigned to the product.
CURR-TYP-COD-RWCE100	PIC X(3)	The identification code for the currency of the product.
TRAN-DAT-RWCE100	PIC 9(8)	Date of settlement. The format of this field is YYYYMMDD.
		The code of the series or name of the contract. It contains:
SECU-ID-COD-RWCE100	PIC X(4)	Code of the underlying/security
SERI-CLAS-COD-RWCE100	PIC X(1)	Class of the options contracts (call/put), empty for futures
EXPI-YR-DAT-RWCE100	PIC 9(2)	Expiration year of the contract (options only)
EXPI-MTH-DAT-RWCE100	PIC 9(2)	Expiration month of the contract (options only)
EXER-PRC-RWCE100	PIC 9(6)	Exercise price (options only)
SERI-VERS-NO-RWCE100	PIC 9(1)	Code showing whether the contract is original (0) or adjusted (1-9)
ACCT-TYP-COD-GRP-RWCE100	PIC X(2)	Account type
DELV-HSE-TRN-NO-RWCE100	PIC 9(7)	Delivery transaction number
REPT-REC-TYP-COD-RWCE100	PIC 9(1)	Raw data record type code. The field value is always "1".
TRAN-QTY-RWCE100	PIC –(9)9	Transaction quantity

Field	Format	Description
DELV-RCV-HSE-SHR-QTY-RWCE100	PIC –(6)9.999	Nominal value of the government bond futures or number of shares that a member receives (positive number) or delivers (negative number) per transaction.
DELV-RCV-HSE-PAY-AMT-RWCE100	PIC –(10)9.99	The amount, which a member has received (positive amount) or has paid (negative amount).
CASH-STL-AMT-RWCE100	PIC –(10)9.99	Cash settlement amount received (positive) or paid (negative)
CASH-STL-PRC-RWCE100	PIC –(9)9	Cash settlement amount by security (unit)
DELV-RECV-MBR-NAM-RWCE100	PIC X(5)	The contracting side, determined by the assignment procedure. CSD delivers anonymously.
DLV-RECV-MBR-ACT-RWCE100	PIC X(2)	The account the exchange member is allocated. For anonymous delivery through CSD, this field is blank.
DISP-DECIMAL-RWCE100	PIC –(4)9	Displayed decimals

3.15 New Raw Data Report: Daily Trade Confirmation (RAWTC810)

The associated “Daily Trade Confirmation” report (RPTTC810) contains all the trades of a market member matched during a trading day, sorted by traders and options series or futures contracts.

With Eurex Release 6.0, this trading report is also available to members in raw data format. The raw data report helps the member with internal processing of trade confirmations, especially for the creation of trade reports to BAFin (former BAWe).

Field	Format	Description
RAW-ID-COD-RWTCB810	PIC X(8)	The identification code of the raw data stream. Values include: RAWCB810 - valid data record ENDCB810 - end of raw data stream
RAW-EFF-DAT-RWTC810	PIC 9(8)	This field contains the effective date of the raw data stream. The format of this field is YYYYMMDD.
RAW-CRT-PROC-DAT-RWTC810	PIC 9(8)	This field identifies the creation date of the raw data stream. The format of this field is YYYYMMDD.

Field	Format	Description
ENV-NO-TXT-RWTC810	PIC X(2)	The environment of the raw data file. Valid values include: 00 – production environment 01 – simulation environment
MBR-CLG-ID-COD-RWTC810	PIC X(5)	The identification code of the Clearing Member.
MBR-EXC-ID-COD-RWTC810	PIC X(5)	The identification code of the Exchange Member.
PART-ID-COD-RWTC810	PIC X(6)	The identification code of the trader who entered the order/quote.
		The code of the series or name of the contract. It contains:
SECU-ID-COD-RWTC810	PIC X(4)	Code of the underlying/security
SERI-CLAS-COD-RWTC810	PIC X(1)	Class of the options contracts (call/put), empty for futures
EXPI-YR-DAT-RWTC810	PIC 9(2)	Expiration year of the contract (options only)
EXPI-MTH-DAT-RWTC810	PIC 9(2)	Expiration month of the contract (options only)
EXER-PRC-RWTC810	PIC 9(6)	Exercise price (options only)
SERI-VERS-NO-RWTC810	PIC 9(1)	Code showing whether the contract is original (0) or adjusted (1-9)
ACCT-TYP-COD-GRP-RWTC810	PIC X(2)	Account type
TRAN-TIM-RWTC810	PIC 9(8)	Time of the transaction. The format of the field is "hhmmsscc".
TRAN-ID-NO-RWTC810	PIC 9(6)	Transaction number
ORDR-NO-RWTC810	PIC 9(9)	Order number
REPT-REC-TYP-COD-RWTC810	PIC 9(1)	Raw data record type code. The field value is always "1".
DISP-DECIMAL-RWTC810	PIC –(4)9	Displayed decimals
ORDR-BUY-COD-RWTC810	PIC X(1)	Code of buy (B) or sell (S) order.
OPEN-COD-RWTC810	PIC X(1)	Code for opening (O) or closing (C).
TRAD-MTCH-QTY-RWTC810	PIC –(6)9	Number of executed (bought/sold) contracts.
ORDR-PRT-FIL-COD-RWTC810	PIC X(1)	Code showing whether the orders/quotes were executed in part (P) or in full (F).
TRAD-MTCH-PRC-RWTC810	PIC –(9)9	Price at which the user bought or sold the contracts.

Field	Format	Description
ORDR-CMB-TYP-COD-RWTC810	PIC X(1)	Combination type code of the order. Valid values are shown in chapter 6.3 of the "Eurex @X-ceed Trading User Guide".
ORDR-TYP-COD-RWTC810	PIC X(1)	Order type code: 'M' = MKT, Market order 'L' = LIM, Limit order 'Q' = QUO, Quote 'O' = OTC, OTC trade 'E' = EFP trade (EEX only) 'V' = VOL, Vola trade 'X' = STN, cancellation by MS
ORDR-TYP-DEC-RWTC810	PIC X(3)	Order type descriptor: MKT, LIM, QUO, OTC, EFP, VOL, STN, description see above.
ORDR-RES-COD-RWTC810	PIC X(1)	Code of the execution restriction of an order: 'F' = FOK, Fill-or-kill (options) 'I' = IOC, Immediate-or-cancel 'S' = STP, Stop order (futures) 'T' = TRG, Triggered Stop order (futures) ' ' = no restriction
MEMB-CLG-ID-COD-RWTC810	PIC X(5)	Code of the clearing member
CUSTOMER-RWTC810	PIC X(12)	Free format text field *CUSTOMER*
USER-ORD-NUM-RWTC810	PIC X(12)	Free format text field *USR-ORDR-NO*
TEXT-RWTC810	PIC X(12)	Free format text field *TEXT*
MEMB-EXC-USR-ID-COD-RWTC810	PIC X(5)	Code of the user who entered the order/quote on-behalf of the member.
TRADE-TYPE-FLAG-RWTC810	PIC X(1)	Trade type: 'B' = Basis Trade 'O' = OTC Block Trade 'E' = EFP Trade (EEX only) 'V' = OTC Vola Trade **'D' = DNTP Trade** ' ' = On-exchange trade

3.16 File Interface Layout Change – File FPTHEA

The file FPTHEA contains derivative theoretical prices used for margining. With the introduction of Eurex Release 6.0, the field "DAYS-TO-EXP-RMTHEA" is extended by two bytes from format PIC Z(2)9 to PIC Z(4)9, which increases the total record length to 188 bytes.

The field "FILLER" of the last record is correspondingly increased from PIC X(70) to PIC X(72).

Further information is found in the updated “Member Interface – File Interface Layouts” document.

Listed below is the record layout for the temporary file. The corresponding field level description follows the record layout.

```
01  RMTHEA-WS-REC.
      10  MGN-CLS-COD-RMTHEA              PIC  X(5).
      10  SERI-GRP-ID-COD-RMTHEA.
        15  SECU-ID-COD-RMTHEA            PIC  X(4).
        15  SERI-CLAS-COD-RMTHEA          PIC  X(1).
        15  SERI-EXP-DAT-RMTHEA.
          20  EXPI-YR-DAT-RMTHEA          PIC  9(2).
          20  EXPI-MTH-DAT-RMTHEA         PIC  9(2).
        15  EXER-PRC-RMTHEA               PIC  9(5).
        15  SERI-VERS-NO-RMTHEA           PIC  9(1).
      10  CALC-BUC-PRICE-RMTHEA           PIC  X(9).
      10  CALC-UND-PRICE-RMTHEA           PIC  X(9).
      10  FORWARD-UND-PRICE-RMTHEA        PIC  Z(4)9.9(6).
      10  UD-IND-RMTHEA                   PIC  X(1).
      10  STOCK-PRC-IND-RMTHEA            PIC  X(1).
      10  THEO-VALUE-RMTHEA               PIC  Z(4)9.9(6).
      10  EA-THEO-VALUE-RMTHEA            PIC  X(9).
      10  SHORT-OPT-THEO-RMTHEA           PIC  Z(4)9.9(6).
      10  SECU-LST-CLS-PRC-RMTHEA         PIC  X(10).
      10  INTP-LST-CLS-PRC-RMTHEA         PIC  X(10).
      10  SERI-LST-STL-PRC-RMTHEA         PIC  X(10).
      10  MGN-INTERVAL-RMTHEA             PIC  X(11).
      10  IMPLIED-VOL-RMTHEA              PIC  Z(2)9.9(2).
      10  INTR-RAT-PCT-RMTHEA             PIC  9(1).9(4).
      10  YIELD-RAT-PCT-RMTHEA            PIC  9(1).9(4).
      10  SECU-TRD-UNT-NO-RMTHEA          PIC  Z(3)9.9(4).
      10  SECU-TIC-SIZE-RMTHEA            PIC  X(7).
      10  SECU-TIC-VAL-RMTHEA             PIC  Z(3)9.9(2).
      10  SERI-STS-COD-RMTHEA             PIC  X(1).
      10  MGN-STYLE-FLG-RMTHEA            PIC  X(1).
      10  EXER-PRC-DECIMALS-RMTHEA        PIC  9(1).
      10  CURR-DCML-SHFT-GRP-RMTHEA.
        15  CURR-TYP-COD-RMTHEA           PIC  X(3).
        15  DCML-SHFT-NO-RMTHEA           PIC  9(1).
      10  DAYS-TO-EXP-RMTHEA              PIC  Z(4)9.
      10  SECU-DIV-IDX-RMTHEA             PIC  X(1).
      10  SECU-DIV-INFO-RMTHEA.
        15  SECU-DAYS-TO-DIV-RMTHEA       PIC  Z(2)9.
        15  SECU-FUT-DIV-AMT-RMTHEA       PIC  Z9.9(2).

01  RMTHEA-FILE-INFO-REC REDEFINES RMTHEA-WS-REC.      (last record)
    05  FILE-END-MARK-RMTHEA              PIC  X(5).
    05  FILLER                            PIC  X.
    05  FILE-COUNTER-RMTHEA               PIC  9(8).
    05  FILLER                            PIC  X.
    05  CURR-BUS-DAY-RMTHEA               PIC  9(8).
    05  FILLER                            PIC  X.
    05  DESCRIPTION-RMTHEA                PIC  X(92).
    05  FILLER                            PIC  X(72).
```

Field	Description
DAYS-TO-EXP-RMTHEA	This field contains the number of days until expiration of the series or contract.

4 Eurex Software Introduction in Production

The software introduction of Eurex Release 6.0 is described in the following section. All times are Central European Time (CET).

4.1 Friday, October 18th, 2002

After the batch, Eurex sends the Eurex Release 6.0 and Gate 3.1 production software to the members. The software is sent to the MISSs which are defined as report nodes. Please assure that these MISSs are connected to the back end. For Sun-based MISSs, members will also receive the Windows version of the software in addition to the Sun Solaris software version. The Eurex 6.0 Software Kit for Windows can be installed on Windows 2000 (MISS and WS) and Windows XP (WS only). Members should ensure that their architecture is connected, up and running after end of trading on Friday, October 18th, 2002.

If no software is received by Monday, October 21st, 2002, the Technical Help Desk should be contacted.

Please check the file transfer for completeness.

The following table shows the disk space required for the installation kits:

Platform	Disk Space Required
Sun Solaris (MISS)	100 MB + 50 MB (Windows 2000)
Intel Windows 2000 (MISS)	50 MB

Latest by Friday, October 18th, 2002, the upgrade to Sun Solaris 8, Hardware Revision 02/02 and the migration from Windows NT to Windows 2000 respectively - for Workstations only - to Windows XP should have been finished to avoid unnecessary production risks during Eurex Release 6.0 introduction.

4.2 Friday, October 25th, 2002

Batch Processing:

The Eurex batch is executed with Software Release Eurex 5.0. Therefore, no specific actions need to be taken by the Eurex member. Backoffice Messages (Broadcast Stream F), Trade confirmations (Broadcast Stream A) and reports are sent as usual. Backoffice Messages and Trade Confirmations will still be available following the batch run after approximately 23:00 CET.

Please ensure that qualified personnel are available to process the backoffice messages and trade confirmations sent to the members after end of trading on Friday, Ocober 25th, 2002. This also includes printing of trade confirmations via the EurexPTC tool.

Historical report availability:

After Eurex introduces Eurex 6.0, no historical reports from or prior to the business day Friday, October 25th, 2002, can be retrieved. Some historical reports may be empty. It should be checked whether the selected reports are received before Friday, October 25th, 2002. After batch processing on Friday, October 25th, 2002, it is not possible to recreate historical reports created by Eurex 5.0.

Installation:

After receiving all backoffice broadcasts, trade confirmations and reports, the installation of Eurex 6.0 can be started at any time.

4.3 Saturday, October 26th, 2002

Connection Test:

The connection test applies to all members.

The Eurex architecture is available from 15:00 to 18:00 CET. It is necessary to verify that all systems are upgraded. The upgrade is mandatory to trade at Eurex on Monday, October 28th, 2002 after introduction of Eurex 6.0 software.

To verify the set-up, it is recommended that all systems, including back-up devices, are connected to the Eurex architecture. A logon with an arbitrary trader account is recommended. To check the set-up of broadcast subscriptions, the exchange sends public broadcasts via the *Market Supervision Messages* window.

Note: Third party VALUES applications may use backward compatibility of the VALUES API, yet it is mandatory to install the Eurex 6.0 software. In all cases, please consider that even though the layout of the VALUES API remains unchanged, the content of some fields may have changed. Therefore please ensure that third party VALUES applications have been sufficiently tested in Eurex Release 6.0 simulation.

4.4 Monday, October 28th, 2002

Eurex Release 6.0 first trading day:

Access to Eurex is only possible with the new Release 6.0 software after this date.

5 Appendix – Eurex Technical Documentation

The simulation versions of the updated technical documentation are planned to be made available by September 2002. Final production versions will be distributed in October 2002.

Updated Eurex Technical Documentation	
Document ID	**Name of the Document**
X0005700	Eurex Front End Installation Guide
X0005900	Eurex Front End Operations Guide
X0006101	Eurex Report Reference Manual
X0006800	Member Interface Specification – File Interface Layouts
X0007100	@Eurex User Reference Manual
XC006100	Deutsche Börse Front-End Sizing Guidelines

The updated Eurex Release 6.0 programming version of the VALUES developer documentation is available on the Eurex website www.eurexchange.com under "Market Place / Programming to Eurex / Programming Version Release 6.0 / GATE 3.1".

Modification Notes – VALUES API Eurex Release 6.0 / GATE 3.1

The Programming Version of the member Front End Development Guide for Eurex Release 6.0 is now available on the Eurex web-site “www.eurexchange.com” under the path ‘market place > programming to Eurex > programming version Release 6.0 / GATE3.1’. The content of the GATE 3.1 documents (the Overview and the Call Interface) has not changed and they can be regarded as Final Versions.

A brief summary of the changes from the Release 5.0 status is given below, and **changes introduced since the publication of the VALUES API Planning Version for Release 6.0 are contained in Section 3**:

1. Technical Changes:

- fieldsize constants: generic fields size constants for VALUES' standard formats (like Amount, Quantity, Time etc.) have been defined. They replace the old, field-specific constants which are now deprecated (considered outdated, and will be removed in future), but still available in this release.
- the contents of the files "DRIV_fieldsizes.h" and "XEUR_vld_values.hxx" have been combined to form the new file "DRIV_data_types.hxx". Use of the old files is now deprecated. (In Eurex Release 6.0, they are still supplied but redirect the compiler to the new file).
- *Subscribe Single Leg Orderbook Depth*: the unused options layouts have been deleted.

2. Functional Changes:

a) Member Position Transfer with Cash Amount:

- *Enter Position Member Transfer*: the field "cshAmntPosnTsf" (for cash amount) and a free text group have added to the request, for options and futures.
- *Inquire Position Member Transfer*: the field "cshAmntPosnTsf" has been added to the response's repeated part, MAX-constant has been adapted accordingly, for options and futures.
- *Inquire Exchange Rate*: the field " maxCshAmntPosnTsf" (maximum possible amount for transfer in a given currency) has been added to the response's repeated part, MAX-constant has been adapted accordingly.

b) Delta Neutral Trading (DNTP):

- *Enter Single Leg Order*: the field "futFixPrc" has been added to the request; options only.
- *Inquire Own Single Leg Order*: the fields "delta", "futLegQty", "futFixPrc" have been added to the response's repeated part; MAX-constant has been adapted accordingly; options only.
- *Subscribe Single Leg Order Confirmation*: fields "delta", "futLegQty", "futFixPrc" added to the broadcast message; options only.
- *Enter Single Leg Quote*: the field "futFixPrc" has been added to the request; options only.
- *Enter Mass Quote*: the field "futFixPrc" has been added to the request; options only.
- *Inquire Own Single Leg Quote*: the fields "deltaBid", "deltaAsk", "futLegQtyBid", "futLegQtyAsk", "futFixPrc" have been added to the response's repeated part; MAX-constant has been adapted accordingly; options only.
- *Subscribe Single Leg Quote Confirmation*: the fields "deltaBid", "deltaAsk", "futLegQtyBid", "futLegQtyAsk", "futFixPrc" have been added to the broadcast message; options only.
- *Subscribe Single Leg Inside Market*: the fields "deltaBid", "deltaAsk", "futLegQtyBid", "futLegQtyAsk" have been added to the broadcast message; options only.

- *Inquire Single Leg Inside Market*: the fields "deltaBid", "deltaAsk", "futLegQtyBid", "futLegQtyAsk" have been added to the response's repeated part; MAX-constant has been adapted, for the response and the request; options only.
- *Subscribe Product State Change*: the field "futFixPrc" has been added to the broadcast message.
- *Inquire Product State*: the field "futFixPrc" has been added to the response's repeated part; MAX-constant has been adapted, for the response and the request. The two-dimensional char array prodId[][] has been rearranged into a repeated struct.
- *Inquire Single Leg Orderbook Depth*: the "bstOrdrGrp" structure has been flattened out. The fields "deltaBid", "deltaAsk", "futLegQtyBid", "futLegQtyAsk" have been added to the message's repeated part, for options only.
- *Inquire Product*: the fields "ipsProdId", "ipsProdId2, "ipsExpMth2", "ipsExpYr2", "deltaNtrInd", "rndLotQty" have been added to the response; options only.
- *Inquire Contract Statistics*: the field "ipsQty" has been added to the repeated part of the response, MAX constant has been adapted accordingly; options only.

c) Replacement of WKN:

- *Inquire Collateral Security Detail*: the field “wknNo” has been removed from the response.

3. Changes Introduced since publication of the Planning Version

- **“ticVal, the field previously formatted with two implicit decimals now contains 4 implicit decimals**
- **a new file “DRIV_limits.h” has been created; it contains constants that can be used to check whether data matches the standard format conventions**
- **the Request ID (RID) of “Inquire Member Security Profile” has changed from 411 to 284. The symbolic constant remains unchanged. Backward compatibility is provided for applications built for Release 5.**

4. Eurex Release 5 Backward Compatibility

Layout-level backward compatibility will be offered to applications built for Eurex Release 5. That means that applications that use applVersion=XEUR_AVN_050 will still be supplied with Release 5's response layouts and are expected to send the request layouts used in Eurex Release 5.

As usual, new contents of existing fields (e.g. the new posTrnTyp value for Position Transfer with Cash Amount in *Subscribe Trade Confirmation*) are not suppressed in backward compatibility mode. The newly introduced functionality (DNTP, and Position Transfer with Cash Amount) cannot be used in backward compatibility mode.

5. Supported Operating Systems and Compilers/Linkers

For details of the supported operating systems, please refer to Eurex Circular 035/02.

No changes have been made to the recommended versions of the Compilers or Linkers.