X-pand into the Future

eurex circular 078/08

Date: Frankfurt, April 10, 2008

Recipients: All Trading Members of Eurex Deutschland and Eurex Zürich, All Clearing Members of Eurex Clearing AG and Vendors

Authorized by: Thomas Book

Action required

Eurex Release 10.0: Guided Simulation Pre-Trading Risk Protection and Stop Button Processing

Related Eurex Circulars: 232/07, 063/08, 042/08

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Content may be most important for:	**Attachments:**
➲ All departments	Eurex 10.0 - Simulation Scenarios

As announced in Eurex circular 042/08 enhancements to the features “Pre-Trading Risk Protection” and “Stop Button” were introduced, such as online broadcast of “Alert” messages and a new violation counter within the VALUES request.

In addition to the existing report TT130 – “Risk Event Report”, the new report TT131 – “Risk Event Trader Report “ will be introduced on **April 14, 2008.** The new report contains trader-specific information such as pre-trading risk protection limits set for own trader subgroups and market maker protection limits. For further information please refer to Eurex circular 063/08.

In order to provide special opportunities to test the stop button and pre-trading risk processing, the focus days listed below will be offered. The focus days are also included in the new simulation calendar, published with Eurex circular 074/08 on April 8, 2008:

- Tuesday, April 22, 2008
- Thursday, April 24, 2008
- Wednesday, April 30, 2008

Specific simulation scenarios to support the simulation activities are attached to this circular.

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Eurex 10.0

Simulation Scenarios

Pre-Trading Risk Protection Limits and Stop-Button

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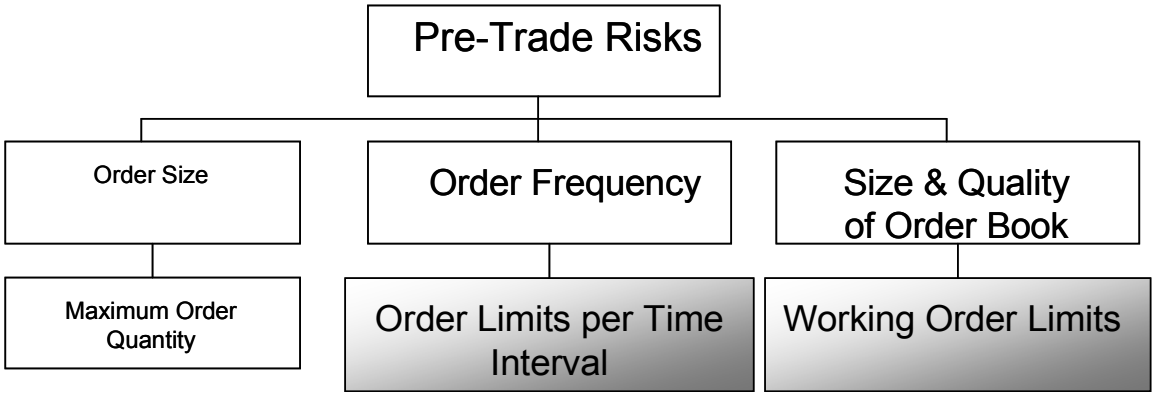
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1 Introduction

1.1 Functional Overview

1.1.1 Pre Trading Risk Protection

With Eurex 10.0 two additional pre-trading risk limits were introduced which can be defined per product. Together with the Maximum Order Quantity three Pre Trading Risk Protection Limits are at disposal for Clearing-as well as Non-Clearing Members.



In this chapter and throughout the document we will concentrate on the Time Interval Limits as well as Working Order Limits (shaded in gray) which were introduced with Eurex Release 10.0.

The Order Transaction Limits per Time Interval prevent the excessive entry of orders / quotes by a member, e.g. due to a malfunctioning machine. Two different limit types can be set in this area. One limit concentrates on the number of orders and quote sides[1] entered, the other limit focuses on the number of lots entered.

[1] The bid side or ask side of a quote

The working order limit is set per product / account level. Once the working order limit is exceeded the specified member, respectively trader subgroup is barred from engaging in more trading activity. The validation that the order limit is exceeded takes place after the order was written to the order book, thus it is possible that a member or a trader subgroup holds a higher open lot size in a specific product/account combination than it has been specified in the specific working order limit.[2]

The working order limits available for maintenance are shown in the following table.

Counters	Options	Futures
Volume (number of lots)	accumulated quantity (lots) of buy and sell orders	accumulated quantity (lots) of buy and sell orders
Delta Long	accumulated quantity (lots) of buy orders for calls + accumulated quantity of sell orders for puts	accumulated quantity (lots) of buy orders
Delta Short	accumulated quantity (lots) of sell orders for calls + accumulated quantity (lots) of buy orders for puts	accumulated quantity (lots) of sell orders
Vega Long	accumulated quantity (lots) of buy orders	not used
Vega Short	accumulated quantity (lots) of sell orders	not used

1.1.2 Stop Button

With Eurex Release 10.0 a Stop Button facility was implemented, which enables Clearing Members to trigger a 'Stop' action on their Non-Clearing Members and provide them with a fast and efficient reaction to emergency situations. Triggering a 'Stop' action will have the following implications for the affected member:

- All open orders and quotes will be deleted (except open orders and quotes for products which are currently in system state Freeze)[3].
- The entry and modification of orders and quotes will be rejected.
- Open OTC as well as give-up / take-up transactions will not be deleted but the counterparty will not be able to approve the pending transactions.
- Trade or position adjustments will be rejected.

[2] Please refer to the scenario provided in chapter 3.2 and the explanation given in chapter 4.4 for further reference.
[3] In system state "Freeze" no order / quote maintenance is possible, thus order deletion cannot be processed. The "Freeze" phase is used by Eurex during pre opening period to verify the potential opening price.

The 'Stop' action remains effective until the clearing member releases the affected member. Both the stopping and releasing of a Non-Clearing member is based on a "Four-Eye"-principle.

A triggered 'Stop' event is not reset during the end-of-day processing but will be carried over for the next business day. If a stopped Non-Clearing Member changes its Clearing Member, the member will be set to active on the day the change becomes effective.

1.2 Motivation and participants

The 'Pre Trading Risk Protection' as well as 'Stop Button' features have been enhanced since production launch of Eurex 10.0 on 26th of November 2007[4]. These enhancements include among others the online broadcast of "Alert" messages in case the time interval counter reaches the set limit and the introduction of the violation counter into the VALUES request. In addition a new member report, TT131- Risk Event Report Trader, reflecting Pre Trading Risk Limit the Non-Clearing member has set for his own subgroups will be introduced on 14.04.2008.

Clearing members as well as Non-clearing members can benefit from using the newly and enhanced features. This document is aimed at both member groups and active participation in simulating these two features is encouraged by providing a step by step guidance through selected scenarios. Throughout the simulation scenarios reference is made to the member group which should engage in specific activities, e.g. order maintenance activities or maintenance of specific Pre Trading risk limits.

The sample scenarios provided should help participants to understand how these two features function and provide them with the ability to configure and implement Pre Trading Risk Measures.

[4] In order to utilize these functionalities it is mandatory to have installed the Eurex 10.0 Production Update Kit 2 and/or Eurex 10.0 Simulation Update 4 Kit

1.3 Focus Days supported by this document

1.3.1 Overview

To allow special attention to the new functionalities “Pre-Trading Risk Protection” and “Stop-Button”, introduced with Eurex Release 10.0 functionality, to be performed focus days are scheduled.

Overall 3 focus days are planned within the Eurex 10.0 permanent simulation and can be divided into the following two areas:

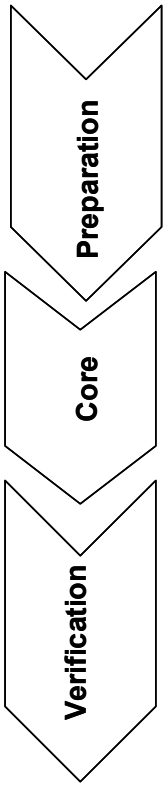
1. Pre-Trading Risk Protection Limits
2. Stop-Button Events

Date	Focus Day	Reference in this document
April 22, 2008	Stop-Button – Stopping a member (NCM)	Chapter 2.2
	Stop-Button – Releasing a member (NCM)	Chapter 2.3
April 24, 2008	Pre-Trading Risk Protection Limits – GCM sets working order limits for his NCM	Chapter 3.2
	Pre-Trading Risk Protection Limits – GCM sets Time Interval limits for his NCM	Chapter 3.4
April 30, 2008	Pre-Trading Risk Protection Limits – NCM sets working order limits for his subgroup	Chapter 3.3

1.3.2 General guidelines

Members are provided with a step by step guideline at hand to execute the simulation scenarios. In addition, information about the time frame, respectively phase the step has to be executed, is provided.

The following three phases are differentiated. Reference to these steps is made throughout the specific simulation scenarios



The following steps are seen as preparation steps:
- Engaging in trading activity
- Correct setting of Resource Access Levels (RALs)
- Subscription of private broadcast streams
- Selection of relevant Pre-Trading Risk Protection reports

The following steps are seen as core steps:
- The triggering of the stop event by the GCM
- The triggering of the release event by the GCM
- The setting of Pre Trade Risk Limits

The following steps are seen as verification steps:
- The observation of broadcast messages
- The observation of messages in the event log
- The observation of legal messages
- Order deletion after triggering Stop-Button
- The rejection of further trading activity

Please note that an effective simulation of the Pre-Trading Risk Protection Limits Stop-Button processing requires the active participation of both, GCM as well as corresponding NCMs.

1.4 Important documentation

Apart from this document, the following member documents provide useful information about the Pre-Trading Risk Protection and Stop-Button functionality.[5]

Name	Description	Publishing Date
Eurex Circular 232 / 07	Production Launch of Eurex Release 10.0: Information on new Features, Timelines and Changes of Legal Documents	November 09, 2007
Eurex Circular 259 / 07	Production Launch of Eurex Release 10.0: Update Information on Resource Access Levels for Pre-Trade Risk and Stop-Button Functionality and on Product Assignment Groups	December 14, 2007
Eurex 10.0 Final Functional Release Notes		August 24, 2007
@X-tract Clearing User Guide	Description of the @X-tract Clearing GUI	February 21, 2008
@X-ceed Trading User Guide	This manual explains the trading functions of the Eurex System and the use of trading commands, screens and reports	February 21, 2008
Eurex Circular 042 / 08	Eurex Release 10.0: Distribution of Update Kit 4 for Simulation, Update Kit 2 for Production and Update Kit 1 for Advanced Simulation	February 22, 2008
Eurex Circular 063 / 08	Eurex Release 10.0: Modification of the Report TT130 – "Risk Event Report" and Introduction of the Report TT131 "Risk Event Trader Report"	March 28, 2008

[5] Documents can be obtained after logging into the Eurex member section at https://www.eurexchange.com/members/login.html. Eurex circulars are publicly available at http://www.eurexchange.com/documents/all_circulars_en.html

2 Focus Days Stop-Button Processing

2.1 Overview

2.1.1 Functional Description

The Stop-Button facility allows GCMs to trigger a "Stop" action to delete open orders and quotes and to prevent any further trading- as well as clearing activity for their NCMs in order to react fast and efficient to emergency situations. The Stop-Button processing follows a "Four-Eye"-principle, this is due to the legal consequences the triggering of the Stop-Button events has. A member stopped by his GCM can be released again by his GCM. In comparison, a member stopped by Eurex Market Supervision cannot be released by his GCM but only by Eurex Market Supervision. In case Eurex Market Supervision stops a GCM, the GCM and all his Non Clearing Members are stopped as well.

2.1.2 Aim of the simulation activities

The simulation participant should become acquainted with the Stop-Button processing.

The following aspects which are seen as essential, are covered within this chapter.

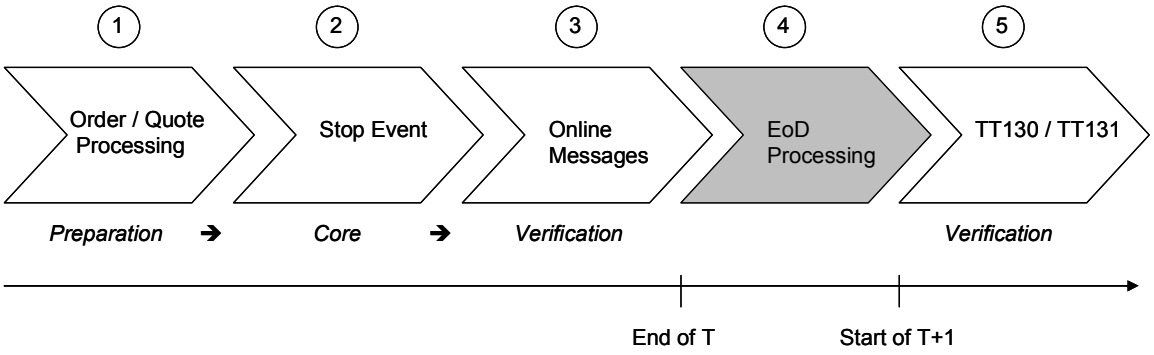
- Functioning of the *Risk Monitoring Maintenance* window – Stop Release Tab
- Stopping an NCM
- Releasing an NCM
- Message Log to identify broadcasts in case of Stop-Button processing
- Legal messages both in English and German
- *Risk Monitoring Maintenance* window - Event Log Tab, containing information about deleted orders / quotes
- TT130 Risk Event Report (Clearing Member Report)
- TT131 Risk Event Report (Trading Member Report)

Please use the checklist provided in chapter 4.1.

2.2 Scenario: Stop-Button is triggered by the clearer for one of his NCMs

Please make sure that the appropriate RAL settings are provided to the users (initiator and confirmer) processing the Stop-Button request. (Further information about necessary RAL settings are provided in chapter 4.3)

Please note that an effective simulation of the Stop-Button processing requires the active participation of both, GCM as well as corresponding NCMs.



Member activities are required for steps 1,2,3,5

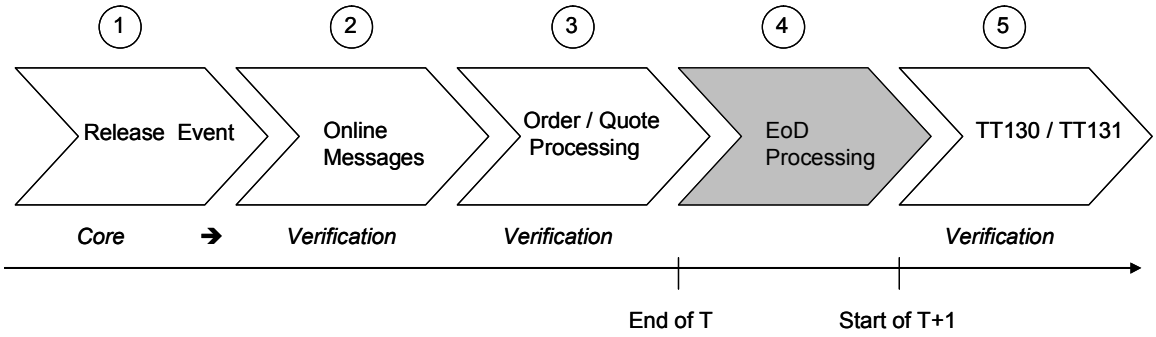
Step	Time Frame	Description
1	T	The NCM should have some open orders and quotes in the book to verify in the Event Log Tab (Step 3) the correct and complete deletion of all open orders and quotes. GCM and corresponding NCM should cooperate closely to engage in trading activity.
2a	T	The GCM selects the NCM on the *Risk Monitoring Maintenance – Stop Release Tab* and clicks the Stop-Button icon.
2b	T	A second user of the GCM verifies the Stop-Button event and confirms it by entering his user ID and password ("Four-Eye"-principle confirmation).
3a	T	The GCM can verify in the *Stop Release Tab* of the *Risk Monitoring Maintenance* window the new status of his NCM, Status: "HALT", the column "HaltMS" is filled with "N".
3b	T	The GCM can verify in the *Event Log Tab*, single messages for each product orders have been deleted and a final message "Stp Btn – All Orders / Quotes deleted"
3c	T	The NCM receives a broadcast in the Message Log, indicating that a Stop-Button action has taken place.

Step	Time Frame	Description
3d	T	The NCM can open the legal messages both in English and German.
3e	T	New trading activity from the NCM is rejected with an appropriate error message.
4	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members
5	T+1	The GCM can verify in the report TT130 the Stop-Button event for the NCM. As additional information he can verify the amount of orders / quotes which were deleted as a result of the Stop-Button processing. Please note that in simulation T+1 can also reflect more than one calendar day.

2.3 NCM is released by GCM

Please make sure that the appropriate RAL settings are provided to the users processing the Stop-Button request. (Further information provided in chapter 4.3)

Current situation is that the NCM is stopped (please refer to chapter 2.2).



Member activities are required for steps 1,2,3,5

Step	Time Frame	Description
1a	T	The GCM selects the NCM on the *Risk Monitoring Maintenance* window – Stop Release Tab and clicks the Release Button icon.
1b	T	A second user verifies the Release Button event and submits it by entering his user ID and password ("Four-Eye"-principle confirmation).
2a	T	The GCM can verify in the Stop Release Tab the new status of his NCM, Status: "OK".
2b	T	The NCM receives update messages in the Message Log and verifies the legal messages which again grant the admission to trading.
3a	T	The NCM engages in new trading activity. Orders and quotes can be successfully entered by the NCM.
4	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members.
5	T+1	The GCM can verify in the report TT130 the Stop / Release-Button Event for the NCM.

3 Focus Days Pre-Trading Risk Protection

3.1 Overview

3.1.1 Functional Description

Eurex Release 10.0 provides Clearing Members with a facility to define sets of order related risk limits for their Non-Clearing Members. These limits can also be defined by a Non-Clearing Member for its trader subgroups.

The following table lists the possible limit restriction which can be set by the GCM for his NCM, respectively by the NCM for his own subgroup.

Limit Group	Description	Covered in simulation scenarios
Order Transaction Limits per Time Interval	Number of order and quotes sides[6] entered	No[7]
	Volume of orders and quote sides entered	Yes
Order Book Limits for working orders	Volume	Yes
	Delta Long	No[8]
	Delta Short	No[4]
	Vega Long	No[4]
	Vega Short	No[4]

[6] The bid side or ask side of the quote
[7] A scenario for number of orders and quote sides entered is quite similar to the volume of orders and quote sides. The scenario provided for the volume covers implicitly the number of orders entered.
[8] Delta Long, Delta Short, Vega Long, Vega Short are subsets of the Total Volume – working order limit

3.1.2 Aim of the simulation activities

The simulation participant should become acquainted with the processing of Pre-Trading Risk Protection Limits.

The following aspects are seen as essential and are covered within this chapter.

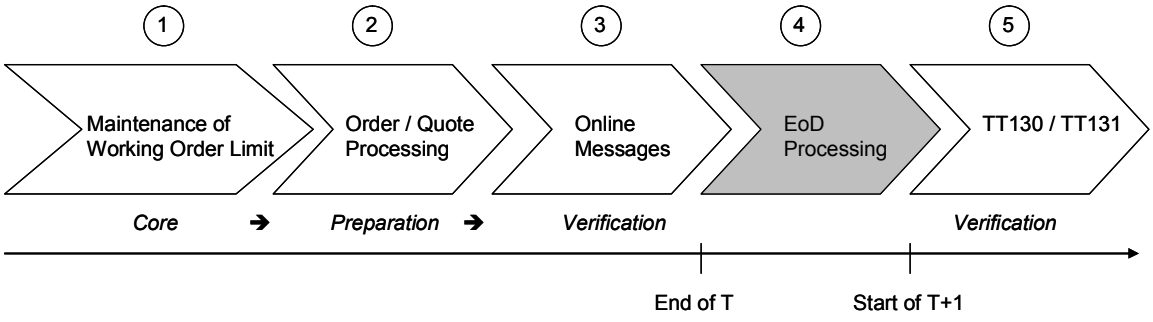
- Functioning of Risk Monitoring Maintenance
- Maintaining Pre Trading Risk Protection Limits
- Different Limits (Working order limits, time interval limits)
- Message Log to identify broadcasts in case of Stop Event processing
- Legal messages in English as well as German
- Event Log Tab, containing information about set limits
- TT130 Risk Event Report (Clearer)
- TT131 Risk Event Report (Trader)

3.2 Scenario: Working Order Limits set by GCM for one of his NCM

Please make sure that the appropriate RAL settings are provided to the users processing the Pre-Trading Risk Protection Limits. (Further information provided in chapter 4.3)

Please note that an effective simulation of the Working Order Limits processing requires the active participation of both, GCM as well as corresponding NCMs.

3.2.1 Suspension of further trading for product / account combination



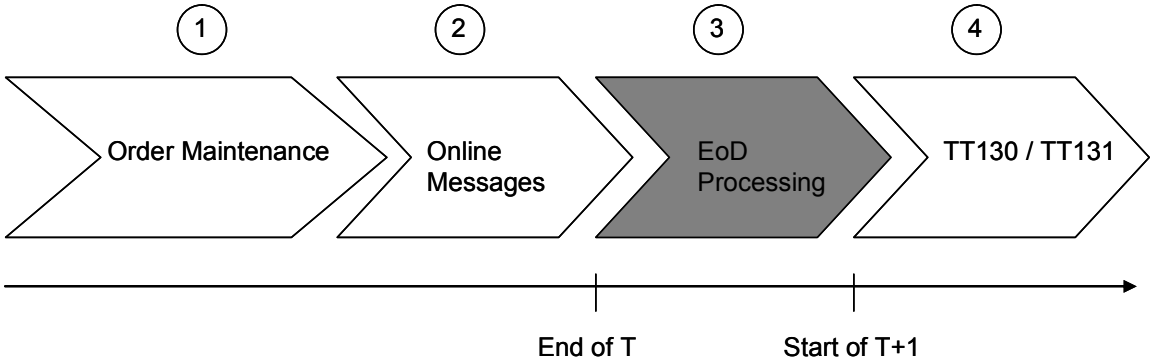
Member activities are required for steps 1,2,3,5

Step	Time Frame / Phase	Description
1	T	The GCM maintains for one of his NCM the following Working Order Limit Product: FESA Account: P1 Working Order Limit: 1000 (Lots)
2	T	The NCM enters 10 orders @ 99 lots, this equals the defined working order limit. The NCM enters the 11th order of 99 lots, the defined limit is exceeded.
3a	T	The GCM receives a broadcast on his *Risk Monitoring Maintenance* window asking him to update / reinquire his window.
3b	T	The GCM can verify in the Limit Maintenance Tab the "VolumeNorm" field which is marked red.
3c	T	The GCM can verify in the Stop Release Tab the new status of his NCM, Status:

Step	Time Frame / Phase	Description
		"Alert" – marked yellow
3d	T	The NCM receives update messages on the Message Log and verifies the legal messages which informs him that admission of trading is suspended for the product FESA and the account P1
3e	T	The NCM is not permitted to enter any new orders / quotes for that account / product combination
4	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members
5a	T+1	The GCM can verify the Pre-Trading Risk Protection Limits he has set for his NCM in the report TT130.
5b	T+1	The NCM can verify the Pre-Trading Risk Protection Limits the GCM has set for him in the report TT131.

3.2.2 Re-granting of further trading for product / account combination

Current situation is that the NCM has 11 orders in the order book for the product account combination FESA / P1 (please refer to step 2 of the member activities in chapter 3.2.1)



Member activities are required for steps 1,2,3,5

Step	Time Frame / Phase	Description
1a	T – Preparation	The right to engage again in trading activities for the respective product / account combination will only be granted if the accumulated quantity of open orders and quotes is lower than 70 %[9] of the set working order limit (in our case 699 Lots). The NCM deletes 3 orders of 100 lots.
1b	T – Preparation	The entry of another order for the specified product / account combination is rejected.
1c	T – Preparation	The NCM deletes another order ➔ accumulated quantity of open orders for the specified product / account combination is lower than 700 lots
2a	T – Verification	The GCM receives a broadcast on his *Risk Monitoring Maintenance* window, requesting a refresh of the window.
2b	T – Verification	The specified working order limit is not marked “red” anymore.
2c	T – Verification	The NCM receives update messages on the Message Log and verifies the legal messages which informs him that admission of trading is again granted for product FESA and the account P1
3	T	Among others, the Risk Event reports are generated during the EoD run and

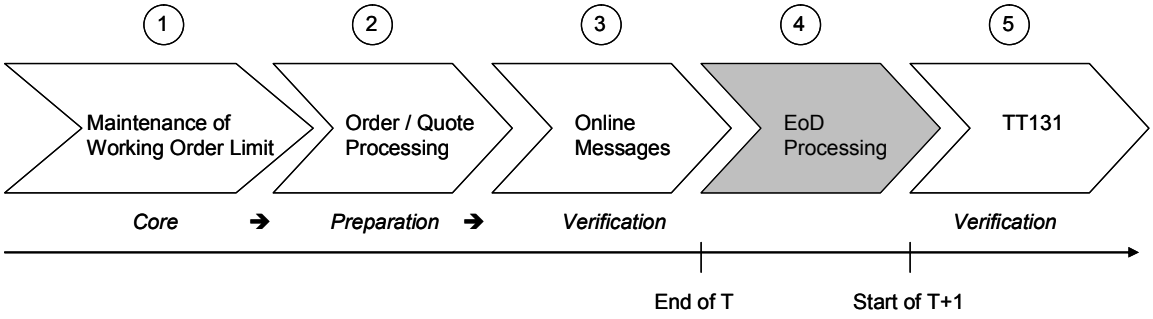
[9] The threshold of 70 % is a market wide defined limit and applies to all product / account combinations

Step	Time Frame / Phase	Description
		distributed to the members
4a	T+1 Verification	The GCM can verify the Pre-Trading Risk Protection Limits he has set for his NCM in the report TT130.
4b	T+1 Verification	The NCM can verify the Pre-Trading Risk Protection Limits the GCM has set for him in the report TT131.

3.3 Scenario: Working Order Limits set by NCM for one of his subgroups

Please make sure that the appropriate RAL settings are provided to the users processing the Pre-Trading Risk Protection Limits. (Further information provided in chapter 4.3)

3.3.1 Suspension of further trading for product / account combination

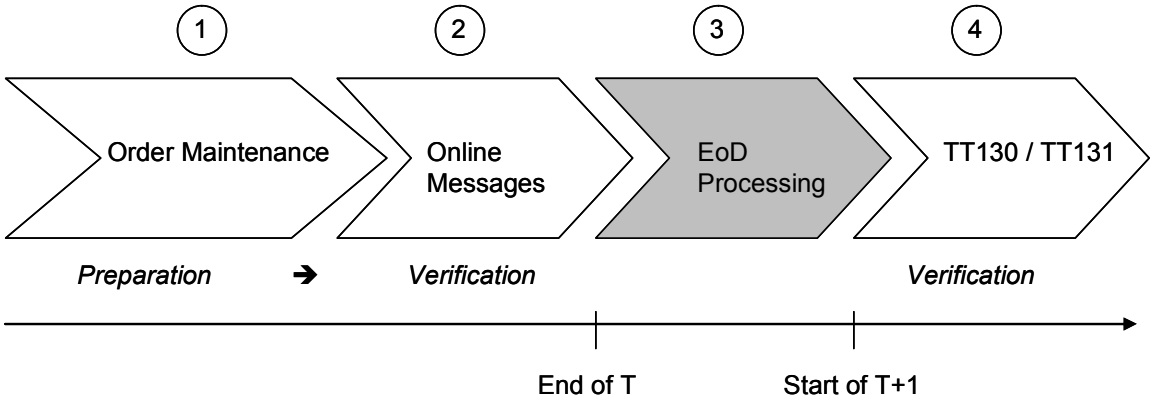


Member activities are required for steps 1,2,3,5

Step	Time Frame	Description
1	T – Core	The NCM maintains the following Working Order Limit for one of his subgroup (e.g. TRD) Product: FESA Account: P1 Working Order Limit: 1000 (Lots)
2	T – Preparation	The NCM enters 10 orders of 100 lots, this equals the defined working order limit. The NCM enters the 11th order of 100 lots, the defined limit is exceeded.
3a	T – Verification	The NCM receives a broadcast on his *Risk Monitoring Maintenance* window asking him to update / reinquire his window.
3b	T – Verification	The NCM can verify in the Limit Maintenance Tab the "VolumeNorm" field which is highlighted red.
3c	T – Verification	The specified trader subgroup of the NCM is not permitted to enter any new orders / quotes for that account / product combination
4	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members
5	T+1 Verification	The NCM can verify the Pre-Trading Risk Protection Limits he has set for his own trader subgroup in the report TT131.

3.3.2 Re-granting of further trading for product / account combination

Current situation is that the NCM has 11 orders in the order book for the product account combination FESA / P1 (please refer to step 2 of the member activities in chapter 3.2.1)



Member activities are required for steps 1,2,3,5

Step	Time Frame / Phase	Description
1a	T	The right to engage again in trading activities for the respective product / account combination will only be granted if the accumulated quantity of open orders and quotes is lower than 70 % of the set working order limit (in our case 699 Lots). The specified NCM trader subgroup deletes 3 orders a 99 lots.
1b	T	The entry of another order for the specified product / account combination is rejected.
1c	T	The specified NCM subgroup deletes another order ➔ accumulated quantity of open orders for the specified product / account combination is lower than 700 lots.
2a	T	The GCM receives a broadcast on his *Risk Monitoring Maintenance* window, requesting a refresh of the window.
2b	T	The specified working order limit is not marked “red” anymore.
2c	T	The NCM receives update messages on the Message Log and verifies the legal messages informing him that admission of trading is granted again for product FESA and the account P1.
3	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members

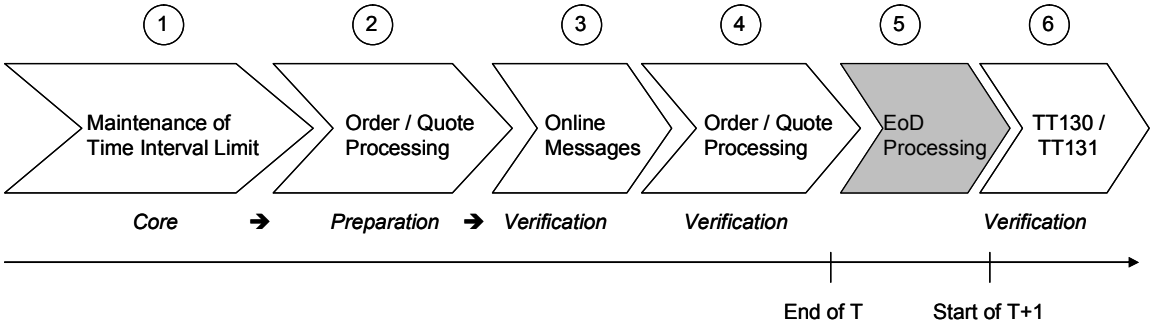
Step	Time Frame / Phase	Description
4	T+1 Verification	The GCM can verify the Pre-Trading Risk Protection Limits he has set for his NCM in the report TT130.

3.4 Scenario: Time Interval Limits

Please make sure that the appropriate RAL settings are provided to the users processing the Pre-Trading Risk Protection Limits. (Further information provided in chapter 4.3)

Please note that an effective simulation of the Time Interval Limits processing requires the active participation of both, GCM as well as corresponding NCMs.

3.4.1 Suspension of trading admission as a consequence of time interval limits



Member activities are required for steps 1,2,3,4, 6

Step	Time Frame / Phase	Description
1	T	The GCM sets the following TI Limits TISecNorm 60 TIVolNorm 1.000 TIViolCntr 2
2	T	The NCM enters 10 orders of 100 lots, this equals the working order limit set. The NCM enters the 11th order of 100 lots[10].
3a	T	The GCM receives a broadcast on his *Risk Monitoring Maintenance* window, requesting a refresh of the window.
3b	T	The TI Limits are marked yellow and the appropriate information is provided in the Message Log
4a	T	The NCM repeats the actions from step 2. ➔ Set Time Interval Limit is exceeded for the second time.

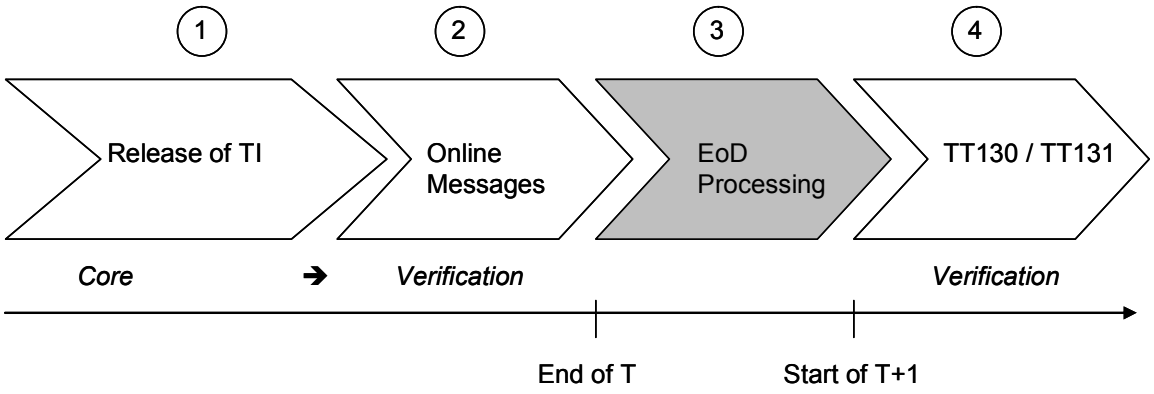
[10] The trading activity must take place within a 60 seconds timeframe.

Step	Time Frame / Phase	Description
4b	T	The specified time interval limit is marked “red”.
4c	T	The NCM receives update messages on the Message Log and verifies the legal messages informing him that admission of trading is granted again for product FESA and the account P1.
5	T	Among others, the Risk Event reports are generated during the EoD run and distributed to the members.
6a	T+1	The GCM can verify the Pre-Trading Risk Protection Limits he has set for his NCM in the report TT130.
6b	T+1	The NCM can verify the Pre-Trading Risk Protection Limits the GCM has set for him in the report TT131.

3.4.2 Re-granting of trading admission as TI is released

Please note that an effective simulation of the Pre-Trading Risk Protection processing requires the active participation of both, GCM as well as corresponding NCMs.

Current situation is that the NCM has 11 orders in the order book for the product account combination FESA / P1 (please refer to step 2 of the member activities in chapter 3.3.1)



Member activities are required for steps 1,2,3,5

Step	Time Frame / Phase	Description
1	T – Core	GCM releases the TI Trigger by applying TIRelease in Limit Maintenance.
2	T - Verification	The GCM receives a broadcast on his *Risk Monitoring Maintenance* window, requesting a refresh of the window.
2	T - Verification	The Time Interval Limits are not marked “red” anymore
3	T	Among others, the Risk Event reports are generated during EoD run and distributed to the members.
4	T+1 Verification	The GCM can verify the Pre-Trading Risk Protection Limits he has set for his NCM in the report TT130.

4 Attachments

4.1 Checklists Stop-Button Events

4.1.1 Clearing Member

Group	Description	Completed
Main	Selection of NCM and applying Stop-Button	
	Applying “Four-Eye”-principle confirmation	
Verification	Broadcast on Stop Release Tab	
	Event Log	
	Reporting of Stop Event on TT130	

4.1.2 Non-Clearing Member

Group	Description	Completed
Verification	Message Log Broadcast	
	Legal Messages English / German	
	Prevention of engaging in new trading activity	
	Reporting of Stop Event on TT131	

4.2 Checklists Pre Trading Risk Protection Events

4.2.1 Clearing Member

Group	Description	Completed
Main	Maintenance of Pre Trading Risk Limits	
Verification	Broadcast on Stop Release Tab	
	Broadcast on Event Log	
	Reporting of Pre Trading Risk Limits on TT130	

4.2.2 Non-Clearing Member

Group	Description	Completed
Main	Maintenance of Pre Trading Risk Limits	
Verification	Broadcast on Stop Release Tab	
	Broadcast on Event Log	
	Reporting of Pre Trading Risk Limits on TT131	

4.3 RAL Settings

RAL-Nr.	Description	Level
20	Stop-Button	3
19	“Four-Eye”-principle	1
66	Pre Trading Risk Control	3
89	General Clearer Authorization	2

4.4 Frequently asked questions

This document does not substitute functional descriptions of the Stop-Button and Pre-Trading Risk Protection functionality. For more detailed descriptions, please refer to the documents shown in chapter 1.1.

In order to provide quick answers to issues with the Pre Trading Risk as well as Stop button functionality, the following list is based on frequent customer inquiries.

Topic	Explanation
Working order limits	The working order limit is based on the accumulated volume (lots) of open orders.
	The working order limit needs to be exceeded in order to prevent the NCM from engaging in further trading activity. The check that the defined working order limit is exceeded, takes place after the order is written to the order book.
	In order to calculate a limit which should not be exceeded, the set working order limit should be considered together with the maximum order quantity set for the NCM by its clearer. Example for setting the working order limit In case it is intended for the NCM to have a maximum of 100 lots open in the order book and the maximum order quantity (MOQ) is set to 10, the working order limit (WOL) has to be set to 90. ➔ WOL[90] = Maximum open order quantity [100] – MOQ [10]
	Delta Long - Options Accumulated volume (lots) of open buy orders for call series and sell orders for put series.
	Delta Short – Options Accumulated volume (lots) of open buy orders for put series and sell orders for call series.
	Vega Long – Options Accumulated volume (lots) of all buy order
	Vega Short – Options Accumulated volume (lots) of all sell order
	Delta Long – Futures Accumulated volume (lots) of all buy order
	Delta Short – Futures Accumulated volume (lots) of all sell order
	Once the working order limit is exceeded and the trading member is

	prevented from engaging in further trading activity, the trading member has to delete as many orders / quotes to reach the threshold level of 70 %. Example In case the working order limit is set to 100 lots and the accumulated volume (lots) of open orders is 110, the trading member has to delete orders accounting for a volume (lots) of minimum 41 lots.
General Pre-Trading Risk Protection Limits	In case one limit is exceeded, the engagement in trading activity is prevented.