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Recipients: All Trading Members of Eurex Deutschland and Eurex Zürich and Vendors
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High priority

Important Changes to System Limits and Network Connectivity

Related Eurex Circulars: 022/09
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Content may be most important for:	**Attachments:**
➲ All departments	none

Summary:

Together with the implementation of Eurex Release 12.0 and the next phase of the Eurex Technology Roadmap in November 2009, Eurex has again made significant system enhancements to accelerate trading speed and throughput as well as to increase system capacity.

As a result of these enhancements, Eurex will adjust the Architecture Throttle and increase system transaction limits in order to realign them with the actual system capacity and current market activity.
In addition Eurex will also increase the maximum number of Session IDs which Members can order for the Enhanced Transaction Solution in the production environment.

The adjustments to the Architecture Throttle and system transaction limits will become effective on **April 1, 2010**. The additional session IDs can be ordered with immediate effect.

Eurex will also enhance its existing connection portfolio for proximity services and the London financial center. In future, connections with total bandwidths of 600 Mbit/s (proximity and London) or one Gbit/s (proximity only) for the exclusive receipt of Market Data via the Enhanced Broadcast Solution can be ordered.

Members are also advised that the current VALUES API Heartbeat facility and the report TC531 – Daily Strategy Quote Maintenance will be decommissioned from the Eurex® system on **March 31, 2010**.

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Important Changes to System Limits and Network Connectivity

Together with the implementation of Eurex Release 12.0 and the next phase of the Eurex Technology Roadmap in November 2009, Eurex has again made significant system enhancements to accelerate trading speed and throughput as well as to increase system capacity.

As a result of these enhancements, Eurex will adjust the Architecture Throttle and increase system transaction limits in order to realign them with the actual system capacity and current market activity. In addition Eurex has also increased the maximum number of session IDs which Members can order for the Enhanced Transaction Solution in the production environment.

Adjustment of the Architecture Throttle

The Architecture Throttle limits the transaction rates submitted via either MISS front-end installations or via the Enhanced Transaction Solution interface and avoids that individual front-end installations or applications with extremely high transmission rates endanger the overall integrity of the Eurex® Trading System.

In order to further promote the usage of electronic trading schemes, the maximum transaction rate will be increased from 130 to 150 transactions per second and member MISS or session ID. The increase will become effective from April 1, 2010 onwards.

Please note: The Maximum Queue Length (MISS front-end installations only), which defines the maximum number of transactions which will be buffered in an intermediate queue while the maximum transaction rate has been exceeded, will remain unchanged at 250.

Increase of the System Transaction Limits

From April 1, 2010 onwards a general increase of the current system transaction limits will come into effect. The following table provides an overview of the existing and the future limits.

Existing limits:

Product	Floor	Factor	Limit per Product	
			Normal	Mass Quote
Non-product specific	n/a	n/a	200.000	n/a
Equity Options / options on XTFs	n/a	n/a	90.000	90.000
Index Options / Interest Rate Options	n/a	n/a	150.000	120.000
Futures	200.000	6	n/a	n/a

Future limits:

Product	Floor	Factor	Limit per Product	
			Normal	Mass Quote
Non-product specific	n/a	n/a	200.000	n/a
Equity Options / options on XTFs	n/a	n/a	110.000	110.000
Index Options / Interest Rate Options	n/a	n/a	180.000	150.000
Futures	200.000	6	n/a	n/a

More information concerning the transaction limits and the respective excess transaction fees can be found on the Eurex website under the following path:

www.eurexchange.com > Technology > Transaction Limits

Increase in the maximum Number of Session IDs for the Enhanced Transaction Solution

In order to provide Members with more flexibility in their configuration of the Enhanced Transaction Solution interface, Eurex will increase the number of session IDs which can be ordered for the production environment from 25 to 40. The first two session IDs are provided to Members free of charge. The monthly charge for additional sessions will remain unchanged at EUR 700 per session ID. The additional sessions can be ordered with immediate effect.

Decommissioning of the VALUES API Heartbeat Facility

In 2005, Eurex introduced the Market-Making Heartbeat for Option Market Makers allowing members' quote applications to request heartbeat monitoring by the Eurex® back-end system for options quotes on a subgroup basis. Non-reception of the heartbeats by the Eurex back-end results in all options quotes from that subgroup being deleted from the system.

Since the original introduction of this feature, Eurex has made significant enhancements to its back-end infrastructure which has subsequently resulted in the necessity for additional overhead back-end processing in order to maintain the heartbeat facility.

Due to the fact that the vast majority of options quotes are now being submitted via the Enhanced Transaction Solution interface and the Enhanced Transaction Solution offers a bidirectional heartbeat functionality, Eurex will decommission the VALUES API Heartbeat facility. The following VALUES API requests are affected:

- Start Heartbeat (Request ID: DRIV_START_HEART_BEAT_RID)
- Stop Heartbeat (Request ID: DRIV_STOP_HEART_BEAT_RID)
- Enter Heartbeat (Request ID: DRIV_ENTER_HEART_BEAT_RID)

The VALUES API Heartbeat facility will be decommissioned in the production environment on March 31, 2010 and in the simulation environment on March 1, 2010.

Extension of Eurex® Network Connection Portfolio for Proximity and the London Financial Center

In order to facilitate the fastest possible connection to the Eurex® trading system for latency-sensitive customers and to speed up dissemination of market data, Eurex will enhance its existing connection portfolio for proximity services and the London financial center. In future, consolidated connections with a total bandwidth of 600 Mbit/s (proximity and London) or one Gbit/s (proximity only) can be ordered. Please note that the one Gbit/s connection can only be ordered for the exclusive receipt of Market Data via the Enhanced Broadcast Solution.

The new connection alternatives can be ordered from April 1, 2010 onwards either via the respective order form or the *"Tickets and Requests"* function in the Member Section of the Eurex website. The order form is available for download under the following path:

Documents > Forms > Trading Derivatives > Single Forms > Technical > Connection

Monthly fees for the two new connection alternatives in proximity will be EUR 2,700 (600 Mbit/s) and EUR 3,000 (1Gbit/s). The monthly fee for a 600 Mbit/s connection to the London financial center will be provided upon request. Eurex will not charge any additional one-off fees for the upgrade of existing proximity connections.

Withdrawal of the Report TC531 – Daily Strategy Quote Maintenance

Eurex would like to inform Members that the report TC531 - Daily Strategy Quote Maintenance, which details each Market Maker's daily strategy quoting activity, will be withdrawn as of March 31, 2010.

If you have any questions or require further information regarding this circular, please contact your Technical Account Manager using your VIP number, the Eurex Customer Technical Support at tel. +49-69-211-1 12 00 or via e-mail: eurex-help@deutsche-boerse.com.

Frankfurt, February 9, 2010