X-pand into the Future

e u r e x *circular 005/01*

Date: Frankfurt, 05 February, 2001
Recipients: All Eurex members and vendors
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Activation of an 'Architecture Throttle' on all MISS Front End Installations

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Content may be most important for:	**Attachments:**
➲ All departments	None

Summary:

On 31 January, 2001, the Management Boards of the Eurex Exchanges made the decision to activate the so-called 'Architecture Throttle' on all MISS front end installations with effect from 26 February, 2001.

The Architecture Throttle is integrated into the MISS architecture and from the exchange side is controlled through two parameters:

1. **Maximum Transaction Rate**

   The value of this parameter defines the maximum frequency at which the particular MISS may send transactions to the Eurex back end.

2. **Maximum Queue Length**

   The value of this parameter defines the maximum number of transactions which will be buffered in an intermediate queue when the maximum transaction rate has been exceeded.

Each member MISS installation will have standard settings for these two parameters as follows:

Maximum Transaction Rate: **50 transactions per second**
Maximum Queue Length: **250 entries**

These values will guarantee that the architecture throttle will really only come into effect when an obviously faulty configuration of a particular front end exists with the potential to endanger the whole operations of the Exchanges.

Activation of an 'Architecture Throttle' on all MISS Front End Installations

On 31 January, 2001, the Management Boards of the Eurex Exchanges made the decision to activate the so-called 'Architecture Throttle' on all MISS front end installations with effect from 26 February, 2001.

With the aid of the Architecture Throttle, the Eurex Exchanges are able to limit the transaction frequency from MISS installations in order to prevent the whole operations of the Exchanges being adversely affected by excessive transaction rates from individual front end installations.

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1. **Maximum Transaction Rate**

   The value of this parameter defines the maximum frequency at which the particular MISS may send transactions to the Eurex back end.

2. **Maximum Queue Length**

   The value of this parameter defines the maximum number of transactions which will be buffered in an intermediate queue when the maximum transaction rate has been exceeded. When the maximum queue length is reached, all further transactions from the MISS will be rejected with the error message No. 19994 "BUSY: TXN REJECTED. TRY AGAIN", until the queue is reduced below the limit. It is the member's responsibility to re-enter rejected transactions into the Eurex system.

Each member MISS installation will have standard settings for these two parameters as follows:

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These values will guarantee that the architecture throttle will really only come into effect when an obviously faulty configuration of a particular front end exists with the potential to endanger the whole operations of the Exchanges.

At the same time, the Management Boards of the Eurex Exchanges made the decision to modify the 'Implementation Regulations of Eurex Deutschland and Eurex Zürich Concerning Technical Equipment'. Also with effect from 26 February, 2001, paragraph 2.1 'Connection to the EDP System - Requirements' will be extended with the following passage (unofficial translation):

"The system load produced on the EDP System of the Eurex Exchanges by individual Member front-end Installations can be measured by the Eurex Exchanges and if necessary for reasons of system security or for other serious reasons, can be limited through technical means."

Frankfurt 05 February, 2001

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