

15 September 2006

Project: Migration of NSC-VE to Linux

Euronext Cash Market trading infrastructure: Technological Enhancement Programme

Euronext is pleased to inform customers that, following the successful migration of the NSC Warrants trading engine to the Linux AIX-IBM technology on 17 July this year, **the technological enhancement programme will continue with the launch of the project to migrate the NSC Equities (NSC-VE) trading engine to the Linux technology.**

This new technology will greatly improve the order handling capacity of the NSC Equities system, while reducing the average order processing time considerably. As a reminder, the NSC Warrants migration to Linux AIX-IBM reduced average end-to-end order latency by over 50%.

The migration to this new technology will make the NSC-VE system much more flexible and more easily adaptable to the development of new product. It will also ensure that the system is more scalable to volume trends and activity peaks.

In order to contribute to the improvement of the performance of the NSC-VE system, a number of functional modifications will be made to the system, covering the following main points:

Optimisation → Modification of the content and details contained in the Market Sheet

The Market Sheet processing rules have been reviewed and simplified (order sequence information no longer disseminated, simplified management of clean-out of Market Sheet each evening).

Simplification → Retransmission of Numbered Responses (MRN) messages discontinued in the SLE message system

The Retransmission of Numbered Responses (also called MRN), has been available to Euronext members historically in order to allow them to re-adjust their orderbooks in case of a failure during the trading day session. This functionality will be discontinued after the NSC-VE migration to the Linux operating system with the aim of improving performance.

Increased security → Retransmission of the orderbook

In the case of a fail-over from Data Centre 1 (DC1) to Data Centre 2 (DC2), and the restart of the central orderbook, Euronext Cash Market Operations will have the possibility either to carry out global orderbook retransmission (all orders for all customers) or specific orderbook retransmission for those customers who request it.

Euronext highly recommends that customers study the impacts on their systems of these changes, which are necessary in order to improve system performance. A specific support team within the Customer Technical Support department has been put in place in order to help customers to prepare for these evolutions in the best possible conditions. We invite customers to contact the NSC-VE Linux support team at the CTS contact details below.

Detailed explanations of these changes can be found in the attached document, 'NSC-VE Linux release: functional and technical impacts', and the structural impacts to the relevant messages have been integrated into the NSC and SLE documents, available at www.euronext.com/cashmembers > [Market / IT documentation](#) > [IT development](#).

- **NSC and TCS systems market data message specifications (TOPCAC)**, version 8.3
- **Specifications for SLE access to NSC-VE, NSC-VW and NSC-VL applications** version 8.2

The full documentation on the **FIX** protocol is currently being updated and will be communicated separately before 22 September 2006. Nevertheless, the changes to all messages, including FIX messages, are described in the functional and technical impact document mentioned above and attached here.

This migration is a major step in Euronext's technological enhancement programme, and will take place in early 2007. The principal milestones in this project, in particular the launch dates on the EUA test platform and the production platform, will be communicated in due course by info-flash.

Should you require any further information on this project, please do not hesitate to contact Customer Technical Support (CTS) at:

Customer Technical Support (CTS)

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With kind regards,

Euronext Cash Market

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For more information and to view past info-flashes, visit: www.euronext.com/cashmembers

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