Technical Notice   13-004

TO: Montréal Exchange (MX) Participants & Vendors

FROM: Market Access Manager

SUBJECT: **MX SOLA Trading System Technology Upgrade**

DATE: March 28, 2013

As part of our ongoing efforts to provide clients with superior products and services, Montréal Exchange (MX) has initiated a project to replace its current hardware infrastructure in order to improve its trading system performance and order handling capacity. As MX continuously focuses on refining and improving all aspects of SOLA® technology, the anticipated benefits to our participants will be lower response times and increased message throughput.

Infrastructure changes will be implemented gradually between now and July of 2013. Technical details are mentioned below regarding the planned network hardware infrastructure changes. Any changes that impact participants will be communicated in advance to allow for sufficient time for business and technical teams to plan and adjust their systems appropriately.

Once the infrastructure changes are completed, MX will increase the messaging capacity for our participants and we anticipate that the bandwidth requirements of the HSVF market data feed will increase accordingly. Since changes in telecommunications typically necessitate long lead times to implement, the MX would like to advise participants to begin the process of validating their current telecommunications capacity and adjust if necessary to meet the following anticipated increases.

Date	MX Feed	Bandwidth Requirements
Starting July 2013	**Full feed (options, futures, & market depth)**	**55 megabits**
	Best limits only (options, futures)	**28 megabits**
	Futures only	**1.5 megabit**

Note: It is possible that the feed may experience momentary bursts (<1 second) above and beyond the figures indicated above. Participants wishing to handle bursts should over-size their telecommunications lines.

Hi Level Technical Summary and Anticipated Timelines of Planned Changes

The implementation for this hardware upgrade will be completed in 4 phases. Please see below the planned details for this implementation. The official weekend times and dates for each of the planned phases will be communicated in the near future. Although the scheduled changes will be transparent (no client-side modifications are required), the **MX highly recommends** that clients test their respective production connections. To minimize any client impact the MX staff will be available to work with clients to address any technical issue.

Phases	2013	Technical Details	Impacted Service
1st Phase	**May/June**	The MX plans to implement an infrastructure upgrade to the HSVF market data service in the **TCF/Toronto** Point of Presence. MX recommends that Participants and Vendors test their applications that	**HSVF market data**

		connect to the HSVF service. Schedule and date will be communicated.	
2nd Phase	May/June	The MX plans to implement an infrastructure upgrade to the HSVF market data service in the **MCC/Markham** Point of Presence. MX recommends that Participants and Vendors test their applications that connect to the MX HSVF service. Schedule and date will be communicated.	**HSVF market data**
3rd Phase	June	MX Technical Launch (dry-run) of the New Infrastructure System. Participants are invited to participate in a market simulation to validate their systems against the new MX New Infrastructure System. After the Technical Launch, systems will be reverted back to the current Infrastructure System. A test script, schedule and date will be communicated prior to the Technical Launch.	**None**
4th phase	June	MX **"go-live"** of the New Trading System. Participants **MUST** participate and validate that their systems correctly communicate the new MX Infrastructure System. A test script, schedule and date will be communicated prior to the "go-live" date.	**SAIL, FIX, STAMP, HSVF, ATR, Clearing API, Drop Copy, TMS and LOPR**

Important – Chicago and London POP Clients

As part of this planned hardware upgrade the MX is evaluating moving their current POP's in Chicago and London. To help manage client impacts we ask that customers currently connected to the MX Chicago and London POP contact the Technical Help Desk: at 1-877-588-8489 or by e-mail at samsupport@m-x.ca or Mark Bourcier at 514-871-3581 or by e-mail at mbourcier@m-x.ca.

Contact Information

For additional information on this notice or if you require technical assistance, please contact the Technical Help Desk (THD) at 1-877-588-8489 or by e-mail at samsupport@m-x.ca.

We thank you for your cooperation.

Market Access Manager