



Securities Industry Automation Corporation
P.O. Box 24270, Brooklyn, NY 11202-4270

December 11, 2009

To: OPRA Multicast Data Recipients
Subject: OPRA Alphanumeric Symbol Routing

As part of the Options Symbology Initiative (OSI), the OPRA security symbol may contain up to 5 characters and can include a combination of alphanumeric characters (e.g., STD1). As such, Appendix 'B' of the OPRA Data Recipient Interface Specification has been updated to include the alphanumeric character routing rules. Please see the attached specification.

As a reminder, a test replay file of the latest Saturday OSI Industry Test data is available upon request. This test file contains alphanumeric symbols generated by the exchanges during the test.

Please register to test in one of the following ways:

1. Email your name and number to CQS-CTS-OPRA@siac.com. Please submit any technical questions to this same email address.
2. Contact William Gutierrez at 212.383.4908 or Diane Mucha at 212.383.5411.

Sincerely,

A handwritten signature in black ink that reads 'Michael Collazo'. The signature is written in a cursive, flowing style.

Michael Collazo
Director
NMS Product Planning & Management

APPENDIX B: OPRA TRAFFIC DISTRIBUTION

OPRA messages are disseminated over multiple IP multicast lines. Equity and index options traffic will be on OPRA Lines 1 through 24.

Traffic will be routed over the IP multicast lines as follows:

OPRA Line 4:

- All Equity and Index Administrative messages, including Flex messages

ALL Lines:

- All Control messages

OPRA Lines 1 through 24:

1. For Equity and Index Last Sale, Equity and Index Quote with Size, Open Interest, Equity and Index End of Day Summary and Underlying Value messages, traffic is routed by the Security Symbol to assigned lines, according to the following routing rules:

Multicast Line	Symbol Distribution	
1	A	AOZZZ
2	AP	BIZZZ
3	BJ	CEZZZ
4	CF	CVZZZ
5	CW	DQZZZ
6	DR	EWZZZ
7	EX	GBZZZ
8	GC	HHZZZ
9	HI	IUZZZ
10	IV	KQZZZ
11	KR	MIZZZ
12	MJ	NEZZZ
13	NF	OIZZZ
14	OJ	PEZZZ
15	PF	QGZZZ
16	QH	RCZZZ
17	RD	SCZZZ
18	SD	SVZZZ
19	SW	TVZZZ
20	TW	UWZZZ
21	UX	VMZZZ
22	VN	XAZZZ
23	XB	YAZZZ
24	YB	ZZZZZ

2. Symbols containing only alpha characters will be routed according to the distribution table, e.g.,:

Standard symbol 'F' will be routed to Line 7

Standard symbol 'VZ' will be routed to Line 22

Standard symbol 'GLD' will be routed to Line 8

*Standard symbol 'INTC' will be routed to Line 9

*Standard symbol 'CMCSA' will be routed to Line 4

*4 and 5 character symbols will apply February 12, 2010, and thereafter

3. Symbols containing numerics will be routed based upon the alpha characters preceding the first numeric, e.g.,:

Non-Standard symbol 'STD1' will be routed to Line 18

4. If a numeric is received in the first character, e.g., '1RSTU', it will be routed to Multicast Line 4