



Securities Industry Automation Corporation
11 Wall Street, New York, NY 10005

July 10, 2026

TO: OPRA Multicast Data Subscribers

SUBJECT: Testing Opportunity Reminder: OPRA-GTH System Hardware Upgrade
Industry Test #1 - **Saturday, July 18, 2026**

What You Should Know

As [previously announced](#), SIAC will be upgrading the OPRA-GTH (Global Trading Hours) Pillar platform to next generation hardware. **The activation date for this upgrade will be Sunday, August 23, 2026.**

What is Changing?

- Although this upgrade does not impact the multicast feed, the OPRA SIP is offering functional testing for this change.

Testing Opportunities and Activation

- Industry Test #1: Saturday, July 18, 2026
- Industry Test #2: Saturday, August 8, 2026
- Confidence Test: Saturday, August 22, 2026
- **Activation: Sunday, August 23, 2026**

The test plan and schedule can be found on the next page of this notice.

Test Registration

- Each OPRA Data Subscriber participating in the test should register at CTA-OPRA-Support@siac.com.

Data Subscribers who receive OPRA from connectivity service providers other than ICE Global Network (IGN) or the NMS Network must contact their connectivity service providers to coordinate testing.

Technical Inquiries

- NMS Product Management Support Email: CTA-OPRA-Support@siac.com
- NMS Product Management Support Line: 212.656.8177, Option 2 (Monday through Friday, 9:00AM - 5:00PM ET)

OPRA Global Trading Hours (GTH) Hardware Upgrade Test Date & Time: July 18, 2026, 7:30 AM to 9:15 AM ET (Approximate)				Primary Data Center: New Hardware (no changes to IP/Multicast) Test Setup - Backup Data Center: Current Hardware	
Hourly Test Script					
#	Time	Test Category	Action By	Test Description	Expected Results
Friday, July 17					
1	7:45:00 PM - 8:30:00 PM	SOD	OPRA	OPRA Global Trading Hours (GTH) to trigger Start of Day message	
2	7:45:00 PM - 7:30:00 AM	Participant Connectivity/Input	CBOE	CBOE to establish connectivity for OPRA GTH Input lines on Primary Data Center CBOE to start submitting Quote and Trade data	CBOE establish connections Quotes and trades accepted and disseminated via the multicast output lines in Primary Data Center
Saturday, July 18					
3	7:30:00 AM - 7:45:00 AM	Data Verification	CBOE	CBOE to continue submitting Quote and Trade data	Data Subscribers can verify Data over the Output Multicast lines
4	7:45:00 AM - 8:00:00 AM	Output Publication Primary Process Failure	OPRA	OPRA GTH to simulate Primary Output Publication process failure. Data Publication to switch to backup process	-- Subscribers may see a momentary outage in data flow on the output lines -- Subscriber can request retransmission for any gaps
5	8:00:00 AM - 8:15:00 AM	Participant Line Disconnect	OPRA	OPRA GTH to simulate primary input line failure of a subset of OPRA input lines for CBOE	CBOE will see primary input lines disconnected
			CBOE	For the affected lines, CBOE to reconnect to OPRA GTH on their backup lines and establish sequence numbers by sending Block Sequence Number Status Inquiry Request (Category N / Type L) and Message Count Status Inquiry Request (Category N / Type R). CBOE to start submitting Quote and Trade data	-- OPRA GTH to accept input connections and respond with Block Sequence Response (Category N / Type M) and Message Count Status Response (Category N / Type S) -- Quotes and trades accepted and disseminated on the output lines
6	8:15:00 AM - 8:45:00 AM	Site failover from Primary Data Center (LDC) to Disaster Recovery Data Center (RDC)	OPRA	OPRA GTH to simulate site failure on Primary Data Center	-- Disconnection of all Input and Retransmission lines to OPRA GTH -- Disruption in output multicast data dissemination for all lines
				OPRA GTH to failover to Backup Data Center and publish following messages: 1) Reset Block Sequence Number (Category H Type K) for each OPRA output line to reset the sequence number to 1 2) Disaster Recovery Data Center Activation (Category H Type P) message 3) Zero Quotes (Quote messages with Zero Price and Size) on behalf of CBOE across all symbols	-- Subscribers to receive and process sequence reset message (Category H / Type K) disseminated from the DR site -- Subscribers to receive the Disaster Recovery Site Activation Control Message (Category H, Type P) over the multicast lines -- Subscribers to receive the zero quotes disseminated upon failover Note: To request retransmission for any range of messages disseminated after the sequence reset to 1, Data Subscriber would be required to apply the offset up to 4,294,967,295 in the message sequence number
				OPRA GTH to enable input lines and Retransmission lines of the DR site	DR Input IP/Ports available to establish connections
			CBOE	CBOE to reconnect to input IP/ports on OPRA GTH DR site and establish sequence numbers by sending Block Sequence Number Status Inquiry Request (Category N / Type L) and Message Count Status Inquiry Request (Category N / Type R).	OPRA GTH to accept input connections and respond with Block Sequence Response (Category N / Type M) and Message Count Status Response (Category N / Type S)
				CBOE to start submitting Options data from the latest Sequence Numbers	-- Subscribers to accept Quotes and trades disseminated on the output lines. -- Subscribers can request Retransmission for any gaps via the retransmission lines on the DR site.
				CBOE to start submitting Quote and Trade data	-- Subscribers can verify Data over the DR Output Multicast lines
	9:15:00 AM			End of test	