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September 26, 2017

To: CQS and CTS Multicast Data Feed Subscribers

Subject: New CQS and CTS Multicast Output Binary Formats: Testing and Implementation Schedule
            Update 11

What's Changing – Update 11

As previously announced in Binary Update 10, new CQS and CTS Binary message formats were to go live on Monday, October 2, 2017.

Due to CTA subscriber requests for additional test time, the Binary implementation date is **rescheduled to Monday, October 9, 2017.**

As a reminder, the CQS and CTS ASCII multicast feeds remain the Production data services that Data Feed Subscribers must use until the production launch of the new Binary formats.

The revised schedule is as follows:

Type of Testing/Launch	Scheduled Dates	Description
Saturday Industry Tests	▪ April 22, 2017 – completed ▪ May 20, 2017 – completed ▪ June 10, 2017 – completed ▪ July 15, 2017 - completed ▪ August 12, 2017 – completed ▪ **October 7, 2017 (Confidence Test)***	CTA Participants will be invited to generate data to test the new Binary formats. Test data will be disseminated over the CQS and CTS production multicast feeds. *Final testing opportunity prior to the activation of the new CQS and CTS binary formats.
Multicast Output Parallel Testing Period	Beginning June 29, 2017	Data Subscribers will have the opportunity to receive three CTS and two CQS Binary multicast output feeds which will be running with temporary parallel binary addresses during the production day. **Note: ASCII data feed formats remain the Production data services that Data Subscribers must use until the production launch of the new Binary formats.**
Production Launch	"Cold-Cut" of both CQS and CTS is scheduled for **Monday, October 9, 2017**	CQS and CTS will be implemented as "Cold-Cut" releases on the same day. Dissemination of production data will only be in Binary formats after these releases. Data Subscribers must be prepared to process the new CQS and CTS Binary data feeds or **risk the loss of data**.

Testing

- Binary Format Replay file testing: A binary replay test file with samples of all message types is being disseminated weeknights **from 9:00 pm to 9:15 pm ET**, over CQS and CTS multicast **Playback Test** lines (**not** over Production lines). Newly introduced binary message types are only available in this file.
- Parallel Data dissemination testing: An actual trading day of binary data (over Production Lines) and ASCII data (over **temporary test lines**) is being disseminated weeknights between **9:00 pm to 9:30 pm ET.** Temporary test addresses have been added to the Common IP Multicast Distribution Network Specification for this purpose.

Implementation

Implementation of both the new CQS and CTS Binary formats will be a **"Cold-Cut"**; therefore Multicast Data Subscribers must be able to handle both the old ASCII formats and the new Binary formats in the event that a CQS and/or CTS fallback becomes necessary. Please note that upon activation of the new Binary formats there will be no changes to the CTS/CQS Multicast Addresses (only message formats changing from ASCII to Binary). Additionally, the three CTS and two CQS Binary multicast output feeds which will be running with temporary parallel binary addresses during the production day will be discontinued.

Documentation

For a complete list of the existing and new IP addresses supporting the CQS and CTS data feeds and the new Dedicated CQS and CTS Binary Parallel Product Multicast Addresses, please reference the Common IP Multicast Distribution Network Specification which can be obtained at the following website www.ctaplan.com under the "Tech Specs" option. Note that the dedicated CQS binary parallel testing production multicast addresses are listed on page 23 and dedicated CTS binary parallel production multicast addresses are listed on page 24. The CQS and CTS ASCII and Binary formats specifications can be obtained at the following website: www.ctaplan.com under the "Tech Specs" option.

Third Party Subscribers

Third party subscribers must contact their service provider to coordinate testing.

For CQS/CTS Technical Inquiries

For any questions related to the new CQS and CTS Binary formats email:
CQS-CTS-OPRA@siac.com.

For LULD Plan Amendment 12 Business Inquiries

For business questions related to the plan amendment, please contact Karen Lorentz at 212-656-5858 or karen.lorentz@nyse.com.