

**EXHIBIT 5 TO SR-CBOE-2017-022**(additions are underlined; deletions are [bracketed])

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**MARKET DATA EXPRESS, LLC (MDX)  
CBOE STREAMING MARKETS  
FEE SCHEDULE  
[DECEMBER 19, 2016]MARCH 14, 2017**

**I. The fees for the BBO Data Feed are as follows:****BBO DATA FEED:**

	<b>Data Fee (per month)</b>	<b>User Fees (per month)</b>	<b><u>Floor Broker User Fees (per month)</u></b>
<b>CBOE</b>	\$7,000	\$50 per Device or user ID for Display Only Service Users (External users)	<u>\$100 per Approved Third- Party Device for Floor Broker Users</u>

The fees for the BBO Data Feed are payable by all “Customers”.

A “Customer” is any person, company or other entity that, pursuant to a market data agreement with MDX, is entitled to receive data, either directly from MDX or through an authorized redistributor (i.e., a Customer or an extranet service provider), whether that data is distributed externally or used internally. A third-party vendor of an Approved Third-Party Device, as defined below, is not a Customer unless it has a market data agreement in place with MDX.

An entity or person that receives BBO data from a Customer through a Display Only Service is not a “Customer” unless it has a market data agreement in place with MDX. A “Display Only Service” allows a natural person end-user to view and manipulate data using the Customer’s computerized service, but not to save, copy, export or transfer the data or any results of the manipulation to any other computer hardware, software or media, except for printing it to paper or other non-magnetic media.

*User Fees.* User fees are payable only for “external” Display Only Service users (Devices or user IDs of Display Only Service users who receive data from a Customer and are not employees or natural person independent contractors of the Customer, the Customer’s affiliates or an authorized service facilitator). A “Device” means any computer, workstation or other item of equipment, fixed or portable, that receives, accesses and/or displays data in visual, audible or other form.

*Floor Broker User Fees.* Floor Broker User fees are payable only for CBOE Floor Brokers accessing the BBO data feed via Approved Third-Party Devices for managing and executing

orders on the CBOE trading floor. An “Approved Third-Party Device” means any computer, workstation or other item of equipment, fixed or portable, that receives, accesses and/or displays data in visual, audible or other form that has been provided by a third-party and that has been approved, by CBOE, for use on the CBOE trading floor. A “Floor Broker User” is a person or entity registered with CBOE as a floor broker pursuant to CBOE Rules. Floor Broker Users may directly interact with the CBOE Hybrid Order Handling System and view and manipulate data using their Approved Third-Party Devices, but not save, copy, export or transfer the data or any results of a manipulation to any other computer hardware, software or media, except for printing it to paper or other non-magnetic media.

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