

Consolidated Quotes and Trades (CQT)

Product Overview

The **Consolidates Quotes and Trades** feed provides easy and flexible access to high quality and reliable real time streaming data for Nasdaq, New York Stock Exchange (NYSE), and other US regional exchange listed securities—all through the cloud. CQT feed also includes OTC market-listed issues.

In order to match the entitlement structure, this feed will support three outbound channels. The data set will be channelized based on the listing market of a security.

Channel	Securities Coverage
CTA-A	NYSE-listed issues
CTA-B	NYSE American, NYSE Arca-, CBOE, and U.S. regional stock exchange- listed issues
UTP	Nasdaq-listed issues
OTCBB	OTC market-listed issues

Publisher

Nasdaq Investment Intelligence is a leading source of market data, global indexes, and investment data and analytics. Powering price discovery and decisions around the globe, our data is distributed to millions of people daily, providing them with innovative real-time and historical information, as well as analytic solutions designed for investors of all sizes and at every stage of the investment lifecycle. To learn more about the company, technology solutions and career opportunities, visit us on [LinkedIn](#), on Twitter [@Nasdaq](#), or at www.nasdaq.com.

Delivery

Nasdaq Cloud Data Service (NCDS) provides a modern and efficient method of delivery for realtime exchange data and other financial information. Data is made available through a suite of APIs, allowing for effortless integration of data from disparate sources, and a dramatic reduction in time to market for customer-designed applications. The API is highly scalable, and robust enough to support the delivery of real-time exchange data.

This repository provides an SDK for developing applications to access the NCDS API. While the SDK is open source, connecting to the API does require credentials, which are provided by Nasdaq during an on-boarding process.

For more information, please use the link- <https://github.com/Nasdaq/CloudDataService>

Table of Contents

System Event Message	4
Details	4
Schema.....	5
Sample.....	5
Quotes.....	6
Details	6
Schema.....	8
Sample.....	9
Trades.....	9
Details	9
Schema.....	11
Sample.....	13
Issue Symbol	13
Details	13
Schema.....	14
Sample.....	15
Trading Action.....	15
Details	16
Schema.....	19
Sample.....	20
Market Center Trading Action	20
Details	20
Schema.....	23
Sample.....	24
NBBO Quote Message.....	24
Details	24
Schema.....	27
Sample.....	28
Limit Up Limit Down (LULD)	28
Details	29

Schema.....	30
Sample.....	31
Market Wide Circuit Breaker (MWCB).....	31
Details	31
Schema.....	33
Sample.....	34
MWCB Decline Level	34
Details	34
Schema.....	36
Sample.....	36
Regulation SHO Restriction Indicator	37
Details	37
Schema.....	38
Sample.....	39
Change control log	39

Message Formats

System Event Message

System Event Messages is used to signal key market or data feed control events.

The Stream Event message is used to convey market events published on a specific upstream channel and (optionally) for a specific Market Center.

Details

Field	Name	Type	Description																		
Message Type	msg_type	string	S = System Message																		
Event Code	event	string	Events for which the message is being generated. Possible values: <table><tr><th>Code</th><th>Value</th></tr><tr><td>*SOD</td><td>Start of Day</td></tr><tr><td>*MKO</td><td>Market Open</td></tr><tr><td>*MKC</td><td>Market Close</td></tr><tr><td>*EOD</td><td>End of Day</td></tr></table>	Code	Value	*SOD	Start of Day	*MKO	Market Open	*MKC	Market Close	*EOD	End of Day								
Code	Value																				
*SOD	Start of Day																				
*MKO	Market Open																				
*MKC	Market Close																				
*EOD	End of Day																				
Impacted Market Center	market_center	string	Populated if it affects a market center <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange
Code	Value																				
Q	The NASDAQ Stock Market, LLC																				
N	New York Stock Exchange, LLC																				
B	NASDAQ BX, Inc.																				
E	Market Independent																				
D	FINRA Alternative Display Facility																				
Z	Cboe BZX Exchange, Inc																				
T	The NASDAQ Stock Market, LLC																				
I	International Securities Exchange																				

			U	Members Exchange	
			W	Cboe Stock Exchange	
			u	Other OTC Markets	
			J	Cboe EDGA Exchange, Inc.	
			M	Chicago Stock Exchange	
			Y	Cboe BYX Exchange, Inc.	
			C	NYSE National, Inc.	
			X	NASDAQ PSX, Inc.	
			A	NYSE American, LLC	
			K	Cboe EDGX Exchange, Inc.	
			P	NYSE Arca, Inc	
			L	Long-term Stock Exchange	
			H	MIAX Exchange	

Schema

```
{
  "type": "record",
  "name": "SystemEvent",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "event_code",
      "type": "string"
    },
    {
      "name": "market_center",
      "type": "string"
    }
  ],
  "version": "1"
}
```

Sample

```
{
  "msg_type": "S",
  "event_code": "*SOD",
```

```
"market_center": ""
}
```

Quotes

Details

Field	Name	Type	Description																								
Message Type	msg_type	string	Q = Market Center Quote																								
Symbol	symbol	string	Denotes the issue symbol of the security for which the quote report is being generated.																								
SIP Feed	sipfeed	string	SIP tape name.																								
SIP Sequence ID	sipfeed_seq	int	Quote sequence number.																								
Market Center	market_center	string	<div>Indicates the market center code that originated the message.</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets
Code	Value																										
Q	The NASDAQ Stock Market, LLC																										
N	New York Stock Exchange, LLC																										
B	NASDAQ BX, Inc.																										
E	Market Independent																										
D	FINRA Alternative Display Facility																										
Z	Cboe BZX Exchange, Inc																										
T	The NASDAQ Stock Market, LLC																										
I	International Securities Exchange																										
U	Members Exchange																										
W	Cboe Stock Exchange																										
u	Other OTC Markets																										

			<table><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange	H	MIAX Exchange
J	Cboe EDGA Exchange, Inc.																						
M	Chicago Stock Exchange																						
Y	Cboe BYX Exchange, Inc.																						
C	NYSE National, Inc.																						
X	NASDAQ PSX, Inc.																						
A	NYSE American, LLC																						
K	Cboe EDGX Exchange, Inc.																						
P	NYSE Arca, Inc																						
L	Long-term Stock Exchange																						
H	MIAX Exchange																						
Bid Price	bid_price	float	The highest price at the market center that someone is willing to buy a security at the given time.																				
Bid Quantity	bid_quantity	int	Number of shares available at the Market Center's bid price in a given security.																				
Ask Price	ask_price	float	The lowest price at the market center that someone is willing to sell a security at a given time.																				
Ask Quantity	ask_quantity	int	The lowest price at the market center that someone is willing to sell a security at a given time.																				
Quote Condition	quote_conditions	string	<div>Indicates the quote conditions. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None Provided</td></tr><tr><td>1</td><td>Open</td></tr><tr><td>2</td><td>Closed</td></tr><tr><td>3</td><td>One-Sided Open</td></tr><tr><td>4</td><td>Two-Sided Open</td></tr><tr><td>0x01</td><td>Quote Sizes are Provided in Shares, not Lots</td></tr></table>	Code	Value	0	None Provided	1	Open	2	Closed	3	One-Sided Open	4	Two-Sided Open	0x01	Quote Sizes are Provided in Shares, not Lots						
Code	Value																						
0	None Provided																						
1	Open																						
2	Closed																						
3	One-Sided Open																						
4	Two-Sided Open																						
0x01	Quote Sizes are Provided in Shares, not Lots																						
StartTime	start_time	string	Actual start time of the Quote.																				

Schema

```
{
  "type": "record",
  "name": "QuoteMessage",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "symbol",
      "type": "string"
    },
    {
      "name": "sipfeed",
      "type": "string"
    },
    {
      "name": "sipfeed_seq",
      "type": "int"
    },
    {
      "name": "market_center",
      "type": "string"
    },
    {
      "name": "bid_price",
      "type": "float"
    },
    {
      "name": "bid_quantity",
      "type": "int"
    },
    {
      "name": "ask_price",
      "type": "float"
    },
    {
      "name": "ask_quantity",
      "type": "int"
    },
    {
      "name": "quote_conditions",
      "type": "string"
    },
    {
      "name": "start_time",
      "type": "string"
    }
  ],
  "version": "1"
}
```


Sample

```
{
  "msg_type": "Q",
  "symbol": "NDAQ",
  "sipfeed": "UQDF112",
  "sipfeed_seq": 1,
  "market_center": "N",
  "bid_price": 23.45,
  "bid_quantity": 100,
  "ask_price": 23.45,
  "ask_quantity": 1100,
  "quote_conditions": "",
  "start_time": "2021-06-02T00:00:00.000"
}
```

Trades

Details

Field	Name	Type	Description
Message Type	msg_type	string	T = Trade Report
Symbol	symbol	string	Denotes the issue symbol of the security for which the quote report is being generated.
Price	price	float	Trade execution price.
Quantity	quantity	long	Trade execution quantity.
Canceled Indicator	canceled_indicator	boolean	Indicates that the record was cancelled (null if not cancelled).
Correction Indicator	correction_indicator	boolean	Indicates that the record was corrected.
DOTT	dott	string	Indicates whether trade occurred during pre-market, regular market or post market hours. Allowable values are: <ul style="list-style-type: none">• F = Regular Hours• T = Pre/Post Market Hours

Listing Venue	listing_venue	string	<div>Indicates the primary listing market for the issue. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>Nasdaq</td></tr><tr><td>N</td><td>NYSE</td></tr><tr><td>A</td><td>NYSE American</td></tr><tr><td>P</td><td>NYSE Arca</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>V</td><td>Investors’ Exchange LLC</td></tr></table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	u	Other OTC Markets	V	Investors’ Exchange LLC																										
Code	Value																																										
Q	Nasdaq																																										
N	NYSE																																										
A	NYSE American																																										
P	NYSE Arca																																										
u	Other OTC Markets																																										
V	Investors’ Exchange LLC																																										
Market Center	market_center	string	<div>Indicates the market where the execution occurred. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc
Code	Value																																										
Q	The NASDAQ Stock Market, LLC																																										
N	New York Stock Exchange, LLC																																										
B	NASDAQ BX, Inc.																																										
E	Market Independent																																										
D	FINRA Alternative Display Facility																																										
Z	Cboe BZX Exchange, Inc																																										
T	The NASDAQ Stock Market, LLC																																										
I	International Securities Exchange																																										
U	Members Exchange																																										
W	Cboe Stock Exchange																																										
u	Other OTC Markets																																										
J	Cboe EDGA Exchange, Inc.																																										
M	Chicago Stock Exchange																																										
Y	Cboe BYX Exchange, Inc.																																										
C	NYSE National, Inc.																																										
X	NASDAQ PSX, Inc.																																										
A	NYSE American, LLC																																										
K	Cboe EDGX Exchange, Inc.																																										
P	NYSE Arca, Inc																																										

			<table><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	L	Long-term Stock Exchange	H	MIAX Exchange						
L	Long-term Stock Exchange												
H	MIAX Exchange												
Sub Market Center	sub_market_center	string	<div>Indicates the sub-market where the execution occurred. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>N</td><td>FINRA / NYSE Trade Reporting Facility</td></tr><tr><td>Q</td><td>FINRA / Nasdaq Trade Reporting Facility Carteret</td></tr><tr><td>B</td><td>FINRA / Nasdaq TRF Chicago</td></tr><tr><td>Space</td><td>Trade originates from FINRA Alternative Display Facility</td></tr></table>	Code	Value	N	FINRA / NYSE Trade Reporting Facility	Q	FINRA / Nasdaq Trade Reporting Facility Carteret	B	FINRA / Nasdaq TRF Chicago	Space	Trade originates from FINRA Alternative Display Facility
Code	Value												
N	FINRA / NYSE Trade Reporting Facility												
Q	FINRA / Nasdaq Trade Reporting Facility Carteret												
B	FINRA / Nasdaq TRF Chicago												
Space	Trade originates from FINRA Alternative Display Facility												
MSN	msn	int	Message Sequence Number from the UTDF level 1 data feed used as a trade identifier.										
OMSN	omsn	int	Applicable to correction and cancel records and identifies the original trade to which the cancel/correction applies.										
Sales Condition	sales_conditions	string	<div>For more information on Sales Condition codes, please refer to:</div> <ul style="list-style-type: none">Section 7.5.1 of the UTP Trade Data Feed Specification for <i>NASDAQ-listed securities</i>Section 7.0 of the Consolidated Tape System Specification for <i>NYSE and AMEX-listed securities</i>										
Trade Date	trade_date	string	Timestamp of the trade.										

Schema

```
{
  "type": "record",
  "name": "TradeMessage",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
```

```
    "type": "string"
  },
  {
    "name": "symbol",
    "type": "string"
  },
  {
    "name": "price",
    "type": "float"
  },
  {
    "name": "quantity",
    "type": "long"
  },
  {
    "name": "canceled_indicator",
    "type": "boolean"
  },
  {
    "name": "correction_indicator",
    "type": "boolean"
  },
  {
    "name": "dott",
    "type": "string"
  },
  {
    "name": "listing_venue",
    "type": "string"
  },
  {
    "name": "market_center",
    "type": "string"
  },
  {
    "name": "sub_market_center",
    "type": "string"
  },
  {
    "name": "msn",
    "type": "int"
  },
  {
    "name": "omsn",
    "type": "int"
  },
  {
    "name": "sales_conditions",
    "type": "string"
  },
  {
    "name": "trade_date",
    "type": "string"
  }
],
```

```
"version": "1"
}
```

Sample

```
{
  "msg_type": "T",
  "symbol": "AAPL",
  "price": 23.45,
  "quantity": 100,
  "canceled_indicator": false,
  "correction_indicator": false,
  "dott": "F",
  "listing_venue": "",
  "market_center": "N",
  "sub_market_center": "",
  "msn": 1,
  "omsn": 0,
  "sales_conditions": "@ ",
  "trade_date": "2021-06-02T00:00:00.000"
}
```

Issue Symbol

Details

Field	Name	Type	Description
Message Type	msg_type	string	B (constant value)
Symbol	symbol	string	Issue symbol of the security.
Name	security_name	string	Indicates security name.

Market Tier	market_tier	string	<div>Indicates the market tiers. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Space</td><td>Unknown or Not Available</td></tr><tr><td>Q</td><td>NASDAQ Global Select Market</td></tr><tr><td>G</td><td>Nasdaq Global Market</td></tr><tr><td>S</td><td>NASDAQ Capital Market</td></tr></table>	Code	Value	Space	Unknown or Not Available	Q	NASDAQ Global Select Market	G	Nasdaq Global Market	S	NASDAQ Capital Market										
Code	Value																						
Space	Unknown or Not Available																						
Q	NASDAQ Global Select Market																						
G	Nasdaq Global Market																						
S	NASDAQ Capital Market																						
Test symbol	test_symbol	boolean	True/False. Whether an instrument is a test one or not.																				
Round Lot Size	round_lot_size	int	Value of round lot size.																				
Financial Status Indicator	financial_status_indicat or	string	<div>Indicates the financial status, which is only available for Nasdaq stocks. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>N</td><td>Normal</td></tr><tr><td>Q</td><td>Bankrupt</td></tr><tr><td>E</td><td>Delinquent (Late Filing)</td></tr><tr><td>J</td><td>Delinquent and Bankrupt</td></tr><tr><td>D</td><td>Deficient (Below Listing Standards)</td></tr><tr><td>G</td><td>Deficient and Bankrupt</td></tr><tr><td>H</td><td>Deficient and Delinquent</td></tr><tr><td>K</td><td>Deficient, Delinquent, and Bankrupt</td></tr><tr><td>S</td><td>Suspended, Pending, Delisting</td></tr></table>	Code	Value	N	Normal	Q	Bankrupt	E	Delinquent (Late Filing)	J	Delinquent and Bankrupt	D	Deficient (Below Listing Standards)	G	Deficient and Bankrupt	H	Deficient and Delinquent	K	Deficient, Delinquent, and Bankrupt	S	Suspended, Pending, Delisting
Code	Value																						
N	Normal																						
Q	Bankrupt																						
E	Delinquent (Late Filing)																						
J	Delinquent and Bankrupt																						
D	Deficient (Below Listing Standards)																						
G	Deficient and Bankrupt																						
H	Deficient and Delinquent																						
K	Deficient, Delinquent, and Bankrupt																						
S	Suspended, Pending, Delisting																						

Schema

```
{
```

```

"type": "record",
"name": "IssueSymbol",
"namespace": "com.nasdaq.cqt",
"fields": [
  {
    "name": "msg_type",
    "type": "string"
  },
  {
    "name": "symbol",
    "type": "string"
  },
  {
    "name": "security_name",
    "type": "string"
  },
  {
    "name": "market_tier",
    "type": "string"
  },
  {
    "name": "test_symbol",
    "type": "boolean"
  },
  {
    "name": "round_lot_size",
    "type": "int"
  },
  {
    "name": "financial_status_indicator",
    "type": "string"
  }
],
"version": "1"
}

```

Sample

```

{
  "msg_type": "B",
  "symbol": "AAPL",
  "security_name": "Apple Inc. - Common Stock",
  "market_tier": "1",
  "test_symbol": false,
  "round_lot_size": 100,
  "financial_status_indicator": "1"
}

```

Trading Action

Details

Field	Name	Type	Description										
Message Type	msg_type	string	H (constant value)										
Source Market Center	source_market_center	string	Originating market center.										
Timestamp	action_time	string	SIP timestamp - Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS										
Symbol	symbol	string	Issue symbol of the security.										
SIP Feed	sipfeed	string	SIP feed identifier.										
SIP Sequence ID	sipfeed_seq	int	SIP feed ID.										
Action Code	action	int	<div>Indicates the trading actions. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>1</td><td>Trading</td></tr><tr><td>2</td><td>Quoting (Orders are accepted, but not Executing – books may be crossed)</td></tr><tr><td>3</td><td>Halted (Orders are not accepted or executing)</td></tr><tr><td>4</td><td>Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)</td></tr></table>	Code	Value	1	Trading	2	Quoting (Orders are accepted, but not Executing – books may be crossed)	3	Halted (Orders are not accepted or executing)	4	Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)
Code	Value												
1	Trading												
2	Quoting (Orders are accepted, but not Executing – books may be crossed)												
3	Halted (Orders are not accepted or executing)												
4	Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)												

Reason Code	reason	int	Indicates the trading actions. Allowable values are:																																																														
			<table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None Provided</td></tr><tr><td>1</td><td>News Dissemination</td></tr><tr><td>2</td><td>News Pending</td></tr><tr><td>3</td><td>Order Influx</td></tr><tr><td>4</td><td>Order Imbalance</td></tr><tr><td>5</td><td>Volatility</td></tr><tr><td>6</td><td>Equipment Changeover</td></tr><tr><td>7</td><td>Sub-Penny Trading</td></tr><tr><td>8</td><td>Regulatory – Extraordinary Market Activity</td></tr><tr><td>9</td><td>ETF</td></tr><tr><td>10</td><td>Information Requested</td></tr><tr><td>11</td><td>Non-Compliance</td></tr><tr><td>12</td><td>Filings Not Current</td></tr><tr><td>13</td><td>SEC Trading Suspension</td></tr><tr><td>14</td><td>Regulatory Concern</td></tr><tr><td>15</td><td>Operations</td></tr><tr><td>16</td><td>Corporate Action</td></tr><tr><td>17</td><td>Quote Not Available</td></tr><tr><td>18</td><td>Volatility – Straddle State</td></tr><tr><td>19</td><td>News and Resumption Times</td></tr><tr><td>20</td><td>Single Stock Pause</td></tr><tr><td>21</td><td>Single Stock Pause – Quoting</td></tr><tr><td>22</td><td>Qualifications Resolved</td></tr><tr><td>23</td><td>Filings Resolved</td></tr><tr><td>24</td><td>Issuer News Not Forthcoming</td></tr><tr><td>25</td><td>Requirements Met</td></tr><tr><td>26</td><td>Filings Met</td></tr><tr><td>27</td><td>Concluded by Other Authority</td></tr><tr><td>28</td><td>New Issue Available</td></tr><tr><td>29</td><td>Issue Available</td></tr></table>	Code	Value	0	None Provided	1	News Dissemination	2	News Pending	3	Order Influx	4	Order Imbalance	5	Volatility	6	Equipment Changeover	7	Sub-Penny Trading	8	Regulatory – Extraordinary Market Activity	9	ETF	10	Information Requested	11	Non-Compliance	12	Filings Not Current	13	SEC Trading Suspension	14	Regulatory Concern	15	Operations	16	Corporate Action	17	Quote Not Available	18	Volatility – Straddle State	19	News and Resumption Times	20	Single Stock Pause	21	Single Stock Pause – Quoting	22	Qualifications Resolved	23	Filings Resolved	24	Issuer News Not Forthcoming	25	Requirements Met	26	Filings Met	27	Concluded by Other Authority	28	New Issue Available	29	Issue Available
Code	Value																																																																
0	None Provided																																																																
1	News Dissemination																																																																
2	News Pending																																																																
3	Order Influx																																																																
4	Order Imbalance																																																																
5	Volatility																																																																
6	Equipment Changeover																																																																
7	Sub-Penny Trading																																																																
8	Regulatory – Extraordinary Market Activity																																																																
9	ETF																																																																
10	Information Requested																																																																
11	Non-Compliance																																																																
12	Filings Not Current																																																																
13	SEC Trading Suspension																																																																
14	Regulatory Concern																																																																
15	Operations																																																																
16	Corporate Action																																																																
17	Quote Not Available																																																																
18	Volatility – Straddle State																																																																
19	News and Resumption Times																																																																
20	Single Stock Pause																																																																
21	Single Stock Pause – Quoting																																																																
22	Qualifications Resolved																																																																
23	Filings Resolved																																																																
24	Issuer News Not Forthcoming																																																																
25	Requirements Met																																																																
26	Filings Met																																																																
27	Concluded by Other Authority																																																																
28	New Issue Available																																																																
29	Issue Available																																																																

			30	IPO – Not Yet Trading
			31	IPO – Release for Quotation
			32	IPO – Window Extension
			33	Market Wide Circuit Breaker Level 1
			34	Market Wide Circuit Breaker Level 2
			35	Market Wide Circuit Breaker Level 3
			36	Market Wide Circuit Breaker – Carryover from Prior Day
			37	Market Wide Circuit Breaker – Resumption
			38	Post-Close
			39	Pre-Cross
			40	Cross
			41	SEC Revocation
			42	Foreign Market Regulatory
			43	Component Derivative Of Exchange Listed
			44	Extraordinary Events
			45	Security Deletion
			46	Internal Halt
			47	Was Frozen
			48	Was Delayed
			49	As-Of Update
			50	Related Security – News Dissemination
			51	Related Security – News Pending
			52	Related Security
			53	In View Of Common
			54	Exchange Specific
			55	Security Not Delayed Or Halted
			56	LULD Trading Pause
			57	No Open No Resume
			58	Not Available For Trading

			59	Unknown or Invalid
			60	Merger Effective (CTS)
			61	ETF Component Price Not Available (CTS)
			62	Intraday Indicative Price Not Available (CTS)

Schema

```
{
  "type": "record",
  "name": "TradingAction",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "source_market_center",
      "type": "string"
    },
    {
      "name": "action_time",
      "type": "string"
    },
    {
      "name": "symbol",
      "type": "string"
    },
    {
      "name": "sipfeed",
      "type": "string"
    },
    {
      "name": "sipfeed_seq",
      "type": "int"
    },
    {
      "name": "action",
      "type": "int"
    },
    {
      "name": "reason",
      "type": "int"
    }
  ]
}
```

```
},  
"version": "1"  
}
```

Sample

```
{  
  "msg_type": "H",  
  "source_market_center": "",  
  "action_time": "2021-06-02T00:00:00.000",  
  "symbol": "AAPL",  
  "sipfeed": "UQDF112",  
  "sipfeed_seq": 1,  
  "action": 1,  
  "reason": 0  
}
```

Market Center Trading Action

Details

Field	Name	Type	Description
Message Type	msg_type	string	K (constant value)
Source Market Center	source_market_center	string	Originating market center
Impacted Market Center	market_center	string	Impacted market center
Timestamp	action_time	string	SIP timestamp - Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS
Symbol	symbol	string	Issue symbol of the security.
SIP Feed	sipfeed	string	SIP feed identifier.
SIP Sequence ID	sipfeed_seq	int	SIP feed ID

Action Code	action	int	Indicates the trading actions. Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>1</td><td>Trading</td></tr><tr><td>2</td><td>Quoting (Orders are accepted, but not Executing – books may be crossed)</td></tr><tr><td>3</td><td>Halted (Orders are not accepted or executing)</td></tr><tr><td>4</td><td>Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)</td></tr></table>	Code	Value	1	Trading	2	Quoting (Orders are accepted, but not Executing – books may be crossed)	3	Halted (Orders are not accepted or executing)	4	Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)																														
Code	Value																																										
1	Trading																																										
2	Quoting (Orders are accepted, but not Executing – books may be crossed)																																										
3	Halted (Orders are not accepted or executing)																																										
4	Paused (Used for Volatility Trading Pauses in US Equities – denotes a symbol going into the Halted State followed Immediately by the Quoting State)																																										
Reason Code	reason	int	Indicates the trading actions. Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None Provided</td></tr><tr><td>1</td><td>News Dissemination</td></tr><tr><td>2</td><td>News Pending</td></tr><tr><td>3</td><td>Order Influx</td></tr><tr><td>4</td><td>Order Imbalance</td></tr><tr><td>5</td><td>Volatility</td></tr><tr><td>6</td><td>Equipment Changeover</td></tr><tr><td>7</td><td>Sub-Penny Trading</td></tr><tr><td>8</td><td>Regulatory – Extraordinary Market Activity</td></tr><tr><td>9</td><td>ETF</td></tr><tr><td>10</td><td>Information Requested</td></tr><tr><td>11</td><td>Non-Compliance</td></tr><tr><td>12</td><td>Filings Not Current</td></tr><tr><td>13</td><td>SEC Trading Suspension</td></tr><tr><td>14</td><td>Regulatory Concern</td></tr><tr><td>15</td><td>Operations</td></tr><tr><td>16</td><td>Corporate Action</td></tr><tr><td>17</td><td>Quote Not Available</td></tr><tr><td>18</td><td>Volatility – Straddle State</td></tr></table>	Code	Value	0	None Provided	1	News Dissemination	2	News Pending	3	Order Influx	4	Order Imbalance	5	Volatility	6	Equipment Changeover	7	Sub-Penny Trading	8	Regulatory – Extraordinary Market Activity	9	ETF	10	Information Requested	11	Non-Compliance	12	Filings Not Current	13	SEC Trading Suspension	14	Regulatory Concern	15	Operations	16	Corporate Action	17	Quote Not Available	18	Volatility – Straddle State
Code	Value																																										
0	None Provided																																										
1	News Dissemination																																										
2	News Pending																																										
3	Order Influx																																										
4	Order Imbalance																																										
5	Volatility																																										
6	Equipment Changeover																																										
7	Sub-Penny Trading																																										
8	Regulatory – Extraordinary Market Activity																																										
9	ETF																																										
10	Information Requested																																										
11	Non-Compliance																																										
12	Filings Not Current																																										
13	SEC Trading Suspension																																										
14	Regulatory Concern																																										
15	Operations																																										
16	Corporate Action																																										
17	Quote Not Available																																										
18	Volatility – Straddle State																																										

			19	News and Resumption Times	
			20	Single Stock Pause	
			21	Single Stock Pause – Quoting	
			22	Qualifications Resolved	
			23	Filings Resolved	
			24	Issuer News Not Forthcoming	
			25	Requirements Met	
			26	Filings Met	
			27	Concluded by Other Authority	
			28	New Issue Available	
			29	Issue Available	
			30	IPO – Not Yet Trading	
			31	IPO – Release for Quotation	
			32	IPO – Window Extension	
			33	Market Wide Circuit Breaker Level 1	
			34	Market Wide Circuit Breaker Level 2	
			35	Market Wide Circuit Breaker Level 3	
			36	Market Wide Circuit Breaker – Carryover from Prior Day	
			37	Market Wide Circuit Breaker – Resumption	
			38	Post-Close	
			39	Pre-Cross	
			40	Cross	
			41	SEC Revocation	
			42	Foreign Market Regulatory	
			43	Component Derivative Of Exchange Listed	
			44	Extraordinary Events	
			45	Security Deletion	
			46	Internal Halt	

			47	Was Frozen	
			48	Was Delayed	
			49	As-Of Update	
			50	Related Security – News Dissemination	
			51	Related Security – News Pending	
			52	Related Security	
			53	In View Of Common	
			54	Exchange Specific	
			55	Security Not Delayed Or Halted	
			56	LULD Trading Pause	
			57	No Open No Resume	
			58	Not Available For Trading	
			59	Unknown or Invalid	
			60	Merger Effective (CTS)	
			61	ETF Component Price Not Available (CTS)	
			62	Intraday Indicative Price Not Available (CTS)	

Schema

```
{
  "type": "record",
  "name": "MarketCenterTradingAction",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "source_market_center",
      "type": "string"
    },
    {
      "name": "market_center",
      "type": "string"
    },
    {
      "name": "action_time",
      "type": "string"
    }
  ]
}
```

```
,
{
  "name": "symbol",
  "type": "string"
},
{
  "name": "sipfeed",
  "type": "string"
},
{
  "name": "sipfeed_seq",
  "type": "int"
},
{
  "name": "action",
  "type": "int"
},
{
  "name": "reason",
  "type": "int"
}
],
"version": "1"
}
```

Sample

```
{
  "msg_type": "K",
  "source_market_center": "N",
  "market_center": "N",
  "action_time": "2021-06-02T00:00:00.000",
  "symbol": "AAPL",
  "sipfeed": "UQDF112",
  "sipfeed_seq": 1,
  "action": 3,
  "reason": 54
}
```

NBBO Quote Message

Details

Field	Name	Type	Description																																										
Message Type	msg_type	string	N (constant value)																																										
Symbol	symbol	string	Issue symbol of the security.																																										
SIP Feed	sipfeed	string	Feed on which Quote was reported.																																										
SIP Sequence ID	sipfeed_seq	int	SIP feed ID																																										
Bid Market Center	bid_market_center	string	<div>Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange
Code	Value																																												
Q	The NASDAQ Stock Market, LLC																																												
N	New York Stock Exchange, LLC																																												
B	NASDAQ BX, Inc.																																												
E	Market Independent																																												
D	FINRA Alternative Display Facility																																												
Z	Cboe BZX Exchange, Inc																																												
T	The NASDAQ Stock Market, LLC																																												
I	International Securities Exchange																																												
U	Members Exchange																																												
W	Cboe Stock Exchange																																												
u	Other OTC Markets																																												
J	Cboe EDGA Exchange, Inc.																																												
M	Chicago Stock Exchange																																												
Y	Cboe BYX Exchange, Inc.																																												
C	NYSE National, Inc.																																												
X	NASDAQ PSX, Inc.																																												
A	NYSE American, LLC																																												
K	Cboe EDGX Exchange, Inc.																																												
P	NYSE Arca, Inc																																												
L	Long-term Stock Exchange																																												

			<table><tr><td>H</td><td>MIAX Exchange</td></tr></table>	H	MIAX Exchange																																										
H	MIAX Exchange																																														
Bid Price	bid_price	float	The price that a dealer or other prospective buyer is prepared to pay.																																												
Bid Quantity	bid_quantity	int	The price that a dealer or other prospective buyer is prepared to pay, and the quantity to be purchased at that price.																																												
Ask Market Center	ask_market_center	string	<div>Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange	H	MIAX Exchange
Code	Value																																														
Q	The NASDAQ Stock Market, LLC																																														
N	New York Stock Exchange, LLC																																														
B	NASDAQ BX, Inc.																																														
E	Market Independent																																														
D	FINRA Alternative Display Facility																																														
Z	Cboe BZX Exchange, Inc																																														
T	The NASDAQ Stock Market, LLC																																														
I	International Securities Exchange																																														
U	Members Exchange																																														
W	Cboe Stock Exchange																																														
u	Other OTC Markets																																														
J	Cboe EDGA Exchange, Inc.																																														
M	Chicago Stock Exchange																																														
Y	Cboe BYX Exchange, Inc.																																														
C	NYSE National, Inc.																																														
X	NASDAQ PSX, Inc.																																														
A	NYSE American, LLC																																														
K	Cboe EDGX Exchange, Inc.																																														
P	NYSE Arca, Inc																																														
L	Long-term Stock Exchange																																														
H	MIAX Exchange																																														
Ask Price	ask_price	Float	The price a seller states they will accept.																																												

Ask Quantity	ask_quantity	Int	The quantity of a security that investors are willing to purchase at a specified bid price.														
Quote Conditions	quote_conditions	string	Indicates the quote conditions. Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None Provided</td></tr><tr><td>1</td><td>Open</td></tr><tr><td>2</td><td>Closed</td></tr><tr><td>3</td><td>One-Sided Open</td></tr><tr><td>4</td><td>Two-Sided Open</td></tr><tr><td>0x01</td><td>Quote Sizes are Provided in Shares, not Lots</td></tr></table>	Code	Value	0	None Provided	1	Open	2	Closed	3	One-Sided Open	4	Two-Sided Open	0x01	Quote Sizes are Provided in Shares, not Lots
Code	Value																
0	None Provided																
1	Open																
2	Closed																
3	One-Sided Open																
4	Two-Sided Open																
0x01	Quote Sizes are Provided in Shares, not Lots																
Start Time	start_time	string	format: yyyy-MM-dd'T'HH:mm:ss.SSS														

Schema

```
{
  "type": "record",
  "name": "NBBOQuoteMessage",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "symbol",
      "type": "string"
    },
    {
      "name": "sipfeed",
      "type": "string"
    },
    {
      "name": "sipfeed_seq",
      "type": "int"
    },
    {
      "name": "bid_market_center",
      "type": "string"
    },
    {
      "name": "bid_price",
      "type": "float"
    }
  ],
}
```

```

{
  "name": "bid_quantity",
  "type": "int"
},
{
  "name": "ask_market_center",
  "type": "string"
},
{
  "name": "ask_price",
  "type": "float"
},
{
  "name": "ask_quantity",
  "type": "int"
},
{
  "name": "quote_conditions",
  "type": "string"
},
{
  "name": "start_time",
  "type": "string"
}
],
"version": "1"
}

```

Sample

```

{
  "msg_type": "N",
  "symbol": "NDAQ",
  "sipfeed": "UQDF112",
  "sipfeed_seq": 1,
  "bid_market_center": "N",
  "bid_price": 23.45,
  "bid_quantity": 100,
  "ask_market_center": "N",
  "ask_price": 23.45,
  "ask_quantity": 1100,
  "quote_conditions": "",
  "start_time": "2021-06-02T00:00:00.000"
}

```

Limit Up Limit Down (LULD)

Details

Field	Name	Type	Description																																												
Message Type	msg_type	string	P (constant value)																																												
Market Center	market_center	string	<div>Indicates the market where the execution occurred. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange	H	MIAX Exchange
Code	Value																																														
Q	The NASDAQ Stock Market, LLC																																														
N	New York Stock Exchange, LLC																																														
B	NASDAQ BX, Inc.																																														
E	Market Independent																																														
D	FINRA Alternative Display Facility																																														
Z	Cboe BZX Exchange, Inc																																														
T	The NASDAQ Stock Market, LLC																																														
I	International Securities Exchange																																														
U	Members Exchange																																														
W	Cboe Stock Exchange																																														
u	Other OTC Markets																																														
J	Cboe EDGA Exchange, Inc.																																														
M	Chicago Stock Exchange																																														
Y	Cboe BYX Exchange, Inc.																																														
C	NYSE National, Inc.																																														
X	NASDAQ PSX, Inc.																																														
A	NYSE American, LLC																																														
K	Cboe EDGX Exchange, Inc.																																														
P	NYSE Arca, Inc																																														
L	Long-term Stock Exchange																																														
H	MIAX Exchange																																														
Timestamp	timestamp	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS																																												
Symbol	symbol	string	Issue symbol of the security.																																												

LULD Price Band Indicator	luld_price_band_indicat or	int	<div>Indicates the LULD price brand. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None / Not Applicable</td></tr><tr><td>1</td><td>Opening Update</td></tr><tr><td>2</td><td>Intraday Update</td></tr><tr><td>3</td><td>Re-Stated Value</td></tr><tr><td>4</td><td>Suspended During Trading Halt or Trading Pause</td></tr><tr><td>5</td><td>Re-Opening Update</td></tr><tr><td>6</td><td>Outside Price Band Rule Hours</td></tr></table>	Code	Value	0	None / Not Applicable	1	Opening Update	2	Intraday Update	3	Re-Stated Value	4	Suspended During Trading Halt or Trading Pause	5	Re-Opening Update	6	Outside Price Band Rule Hours
Code	Value																		
0	None / Not Applicable																		
1	Opening Update																		
2	Intraday Update																		
3	Re-Stated Value																		
4	Suspended During Trading Halt or Trading Pause																		
5	Re-Opening Update																		
6	Outside Price Band Rule Hours																		
LULD Timestamp	luld_time	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS																
Limit Down Price	limit_down_price	float	Price for limit down.																
Limit Up Price	limit_up_price	float	Price for limit up.																

Schema

```
{
  "type": "record",
  "name": "LimitUpLimitDown",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "market_center",
      "type": "string"
    },
    {
      "name": "timestamp",
      "type": "string"
    },
    {
      "name": "symbol",
      "type": "string"
    },
    {
      "name": "luld_price_band_indicator",
```

```
    "type": "int"
  },
  {
    "name": "luld_time",
    "type": "string"
  },
  {
    "name": "limit_down_price",
    "type": "float"
  },
  {
    "name": "limit_up_price",
    "type": "float"
  }
],
"version": "1"
}
```

Sample

```
{
  "msg_type": "P",
  "market_center": "N",
  "timestamp": "2021-06-02T00:00:00.000",
  "symbol": "AAPL",
  "luld_price_band_indicator": 1,
  "luld_time": "2021-06-02T09:30:00.000",
  "limit_down_price": 10.3,
  "limit_up_price": 11.3
}
```

Market Wide Circuit Breaker (MWCB)

Details

Field	Name	Type	Description																																												
Message Type	msg_type	string	D (constant value)																																												
Market Center	market_center	string	<div>Indicates the market where the execution occurred. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange	H	MIAX Exchange
Code	Value																																														
Q	The NASDAQ Stock Market, LLC																																														
N	New York Stock Exchange, LLC																																														
B	NASDAQ BX, Inc.																																														
E	Market Independent																																														
D	FINRA Alternative Display Facility																																														
Z	Cboe BZX Exchange, Inc																																														
T	The NASDAQ Stock Market, LLC																																														
I	International Securities Exchange																																														
U	Members Exchange																																														
W	Cboe Stock Exchange																																														
u	Other OTC Markets																																														
J	Cboe EDGA Exchange, Inc.																																														
M	Chicago Stock Exchange																																														
Y	Cboe BYX Exchange, Inc.																																														
C	NYSE National, Inc.																																														
X	NASDAQ PSX, Inc.																																														
A	NYSE American, LLC																																														
K	Cboe EDGX Exchange, Inc.																																														
P	NYSE Arca, Inc																																														
L	Long-term Stock Exchange																																														
H	MIAX Exchange																																														
Timestamp	timestamp	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS																																												

MWCB Status	mwcb_status	string	<div>Indicates the market wide circuit breaker status. Allowable values are:</div> <table><tr><th>Code</th><th>Value</th></tr><tr><td>*MW1</td><td>Market Wide Circuit Breaker Level 1 Breach (US Equities)</td></tr><tr><td>*MW2</td><td>Market Wide Circuit Breaker Level 2 Breach (US Equities)</td></tr><tr><td>*MW3</td><td>Market Wide Circuit Breaker Level 3 Breach (US Equities)</td></tr></table>	Code	Value	*MW1	Market Wide Circuit Breaker Level 1 Breach (US Equities)	*MW2	Market Wide Circuit Breaker Level 2 Breach (US Equities)	*MW3	Market Wide Circuit Breaker Level 3 Breach (US Equities)
Code	Value										
*MW1	Market Wide Circuit Breaker Level 1 Breach (US Equities)										
*MW2	Market Wide Circuit Breaker Level 2 Breach (US Equities)										
*MW3	Market Wide Circuit Breaker Level 3 Breach (US Equities)										

Schema

```
{
  "type": "record",
  "name": "MarketWideCircuitBreakerDeclineLevel",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "market_center",
      "type": "string"
    },
    {
      "name": "timestamp",
      "type": "string"
    },
    {
      "name": "mwcb_level_1",
      "type": "float"
    },
    {
      "name": "mwcb_level_2",
      "type": "float"
    },
    {
      "name": "mwcb_level_3",
      "type": "float"
    }
  ],
  "version": "1"
}
```

Sample

```
{
  "msg_type": "D",
  "market_center": "",
  "timestamp": "2021-06-02T00:00:00.000",
  "mwcb_status": "*MW1"
}
```

MWCB Decline Level

Details

Field	Name	Type	Description
Message Type	msg_type	string	C (constant value)

Market Center	market_center	string	Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>N</td><td>New York Stock Exchange, LLC</td></tr><tr><td>B</td><td>NASDAQ BX, Inc.</td></tr><tr><td>E</td><td>Market Independent</td></tr><tr><td>D</td><td>FINRA Alternative Display Facility</td></tr><tr><td>Z</td><td>Cboe BZX Exchange, Inc</td></tr><tr><td>T</td><td>The NASDAQ Stock Market, LLC</td></tr><tr><td>I</td><td>International Securities Exchange</td></tr><tr><td>U</td><td>Members Exchange</td></tr><tr><td>W</td><td>Cboe Stock Exchange</td></tr><tr><td>u</td><td>Other OTC Markets</td></tr><tr><td>J</td><td>Cboe EDGA Exchange, Inc.</td></tr><tr><td>M</td><td>Chicago Stock Exchange</td></tr><tr><td>Y</td><td>Cboe BYX Exchange, Inc.</td></tr><tr><td>C</td><td>NYSE National, Inc.</td></tr><tr><td>X</td><td>NASDAQ PSX, Inc.</td></tr><tr><td>A</td><td>NYSE American, LLC</td></tr><tr><td>K</td><td>Cboe EDGX Exchange, Inc.</td></tr><tr><td>P</td><td>NYSE Arca, Inc</td></tr><tr><td>L</td><td>Long-term Stock Exchange</td></tr><tr><td>H</td><td>MIAX Exchange</td></tr></table>	Code	Value	Q	The NASDAQ Stock Market, LLC	N	New York Stock Exchange, LLC	B	NASDAQ BX, Inc.	E	Market Independent	D	FINRA Alternative Display Facility	Z	Cboe BZX Exchange, Inc	T	The NASDAQ Stock Market, LLC	I	International Securities Exchange	U	Members Exchange	W	Cboe Stock Exchange	u	Other OTC Markets	J	Cboe EDGA Exchange, Inc.	M	Chicago Stock Exchange	Y	Cboe BYX Exchange, Inc.	C	NYSE National, Inc.	X	NASDAQ PSX, Inc.	A	NYSE American, LLC	K	Cboe EDGX Exchange, Inc.	P	NYSE Arca, Inc	L	Long-term Stock Exchange	H	MIAX Exchange
Code	Value																																														
Q	The NASDAQ Stock Market, LLC																																														
N	New York Stock Exchange, LLC																																														
B	NASDAQ BX, Inc.																																														
E	Market Independent																																														
D	FINRA Alternative Display Facility																																														
Z	Cboe BZX Exchange, Inc																																														
T	The NASDAQ Stock Market, LLC																																														
I	International Securities Exchange																																														
U	Members Exchange																																														
W	Cboe Stock Exchange																																														
u	Other OTC Markets																																														
J	Cboe EDGA Exchange, Inc.																																														
M	Chicago Stock Exchange																																														
Y	Cboe BYX Exchange, Inc.																																														
C	NYSE National, Inc.																																														
X	NASDAQ PSX, Inc.																																														
A	NYSE American, LLC																																														
K	Cboe EDGX Exchange, Inc.																																														
P	NYSE Arca, Inc																																														
L	Long-term Stock Exchange																																														
H	MIAX Exchange																																														
Timestamp	timestamp	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS																																												
MWCB Level 1	mwcb_level_1	float	Value of MWCB level 1																																												
MWCB Level 2	mwcb_level_2	float	Value of MWCB level 2																																												
MWCB Level 3	mwcb_level_3	float	Value of MWCB level 3																																												

Schema

```
{
  "type": "record",
  "name": "MarketWideCircuitBreakerDeclineLevel",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "market_center",
      "type": "string"
    },
    {
      "name": "timestamp",
      "type": "string"
    },
    {
      "name": "mwcb_level_1",
      "type": "float"
    },
    {
      "name": "mwcb_level_2",
      "type": "float"
    },
    {
      "name": "mwcb_level_3",
      "type": "float"
    }
  ],
  "version": "1"
}
```

Sample

```
{
  "msg_type": "C",
  "market_center": "",
  "timestamp": "2021-06-02T00:00:00.000",
  "mwcb_level_1": 2000.0,
  "mwcb_level_2": 1900.0,
  "mwcb_level_3": 1800.0
}
```

Regulation SHO Restriction Indicator

Details

Field	Name	Type	Description						
Message Type	msg_type	string	V (constant value)						
Source Market Center	source_market_center	string	Originating market center						
Timestamp	action_time	string	SIP timestamp - Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS						
Symbol	symbol	string	Issue symbol of the security.						
SIP Feed	sipfeed	string	SIP feed identifier.						
SIP Sequence ID	sipfeed_seq	int	SIP feed ID.						
Action Code	action	int	Indicates the regulation SHO actions. Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>Short Sale Restriction Not In Effect</td></tr><tr><td>1</td><td>Short Sale Restriction In Effect</td></tr></table>	Code	Value	0	Short Sale Restriction Not In Effect	1	Short Sale Restriction In Effect
Code	Value								
0	Short Sale Restriction Not In Effect								
1	Short Sale Restriction In Effect								

Reason Code	reason	int	Indicates the regulation SHO reasons. Allowable values are: <table><tr><th>Code</th><th>Value</th></tr><tr><td>0</td><td>None / Not In Effect</td></tr><tr><td>1</td><td>Day 1 – Activated</td></tr><tr><td>2</td><td>Day 2 – Continued</td></tr></table>	Code	Value	0	None / Not In Effect	1	Day 1 – Activated	2	Day 2 – Continued
Code	Value										
0	None / Not In Effect										
1	Day 1 – Activated										
2	Day 2 – Continued										

Schema

```
{
  "type": "record",
  "name": "RegSHORestrictionIndicator",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
      "name": "msg_type",
      "type": "string"
    },
    {
      "name": "source_market_center",
      "type": "string"
    },
    {
      "name": "action_time",
      "type": "string"
    },
    {
      "name": "symbol",
      "type": "string"
    },
    {
      "name": "sipfeed",
      "type": "string"
    },
    {
      "name": "sipfeed_seq",
      "type": "int"
    },
    {
      "name": "action",
      "type": "int"
    },
    {
      "name": "reason",
      "type": "int"
    }
  ],
  "version": "1"
}
```

Sample

```
{
  "msg_type": "V",
  "source_market_center": "N",
  "action_time": "2021-06-02T00:00:00.000",
  "symbol": "AAPL",
  "sipfeed": "UQDF112",
  "sipfeed_seq": 1,
  "action": 0,
  "reason": 0
}
```

Change control log

Change date: 08/27/2021.
Added OTCBB in CQT.

Change date: 06/03/2021.

The following fields have been added in **System Event Message**:

- Impacted Market Center

The following fields have been removed in **System Event Message**:

- Nanoseconds (Timestamp in nanoseconds from midnight)

The following fields have been removed from **Quotes**:

- end_time
- Removed suffix "Z" from timestamps

The following fields have been renamed in **Quotes**:

- Renamed "marketCenter" to "market_center"
- Renamed "AskPrice" to "ask_price"
- Renamed "AskQuantity" to "ask_quantity"
- Renamed "BidPrice" to "bid_price"
- Renamed "BidQuantity" to "bid_quantity"
- Renamed "QuoteConditions" to "quote_conditions"
- Renamed "SipFeed" to "sipfeed"
- Renamed "UFQuoteMessage" to "QuoteMessage"

The following fields have been added from **Trades**:

- correction_indicator

The following fields have been removed from **Trades**:

- Removed suffix "Z" from timestamps

The following fields have been renamed in **Trades**:

- Renamed "UFTradeMessage" to "TradeMessage"

Other changes:

- Renamed "namespace" in schema from "com.nasdaq.equities.island.applications.datafeed.uf.messaging.binary21" to "com.nasdaq.cqt"

The following **new messages** have been added:

- Issue Symbol
- Trading Action
- Market Center Trading Action
- NBBO Quote Message
- Limit Up Limit Down
- Market Wide Circuit Breaker
- Market Wide Circuit Breaker Decline Level
- Regulation SHO Restriction Indicator

The following **Codes** have been renamed:

- Using numbers to represent "Market Tier Value" Code instead of characters
- Using numbers to represent "Financial Status" Code instead of characters