# 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-, NYSE-, NYSE American and other regional-listed securities—all through the cloud.

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.

Chanel	Securities Coverage
1 (CTA-A)	NYSE-listed issues
2 (CTA-B)	NYSE American, NYSE Arca-, CBOE, and U.S. regional stock exchange- listed issues
3 (UTPBIN)	Nasdaq-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 <a href="LinkedIn."><u>LinkedIn.</u></a>, on Twitter <a href="@Nasdaq.com">@Nasdaq.com</a>.

#### 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 onboarding process.

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

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# **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.

Field	Name	Туре	Descripti	on		
Message Type	msg_type	string	S = Syster	S = System Message		
Event Code	event	string	Events fo values:	r which the message is being generated. Possib		
			Code	Value		
			*SOD	Start of Day		
			*MKO	Market Open		
			*MKC	Market Close		
			*EOD	End of Day		
Impacted Market Center	market_center	string	Populate	d if it affects a market center  Value		
			Q	The NASDAQ Stock Market, LLC		
			N	New York Stock Exchange, LLC		
			В	NASDAQ BX, Inc.		
			E	Market Independent		
			D	FINRA Alternative Display Facility		
			Z	Cboe BZX Exchange, Inc		
			Т	The NASDAQ Stock Market, LLC		
			1	International Securities Exchange		

	U	Members Exchange	
	W	Cboe Stock Exchange	
	u	OTC Markets Group	
	J	Cboe EDGA Exchange, Inc.	
	М	Chicago Stock Exchange	
	Υ	Cboe BYX Exchange, Inc.	
	С	NYSE National, Inc.	
	х	NASDAQ PSX, Inc.	
	Α	NYSE American, LLC	
	K	Cboe EDGX Exchange, Inc.	
	Р	NYSE Arca, Inc	
	L	Long-term Stock Exchange	
	Н	MIAX Exchange	

```
"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

Field	Name	Туре	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 sequen	ce number.	
Market Center	market_center	string	Indicates the market center code that originate message.		
			Code	Value	
			Q	The NASDAQ Stock Market, LLC	
			N	New York Stock Exchange, LLC	
			В	NASDAQ BX, Inc.	
			E	Market Independent	
			D	FINRA Alternative Display Facility	
			Z	Cboe BZX Exchange, Inc	
			Т	The NASDAQ Stock Market, LLC	
			I	International Securities Exchange	
			U	Members Exchange	
			W	Cboe Stock Exchange	
			u	OTC Markets Group	

			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	Indicates the quote conditions. Allowable values are:		
			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.		

```
"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

Field	Name	Туре	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:  • F = Regular Hours  • T = Pre/Post Market Hours	

Listing Venue	listing_venue	string	Indicates the primary listing market for the issue. Allowable values are:		
			Code	Value	
			Q	Nasdaq	
			N	NYSE	
			А	NYSE American	
			Р	NYSE Arca	
			V	Investors' Exchange LLC	
Market Center	market_center	string	Indicates th Allowable v	ne market where the execution occurred values are:	
			Code	Value	
			Q	The NASDAQ Stock Market, LLC	
			N	New York Stock Exchange, LLC	
			В	NASDAQ BX, Inc.	
			Е	Market Independent	
			D	FINRA Alternative Display Facility	
			Z	Cboe BZX Exchange, Inc	
			Т	The NASDAQ Stock Market, LLC	
			I	International Securities Exchange	
			U	Members Exchange	
			W	Cboe Stock Exchange	
			u	OTC Markets Group	
			J	Cboe EDGA Exchange, Inc.	
			М	Chicago Stock Exchange	
			Υ	Cboe BYX Exchange, Inc.	
			С	NYSE National, Inc.	
			X	NASDAQ PSX, Inc.	
			А	NYSE American, LLC	
			K	Cboe EDGX Exchange, Inc.	
			P	NYSE Arca, Inc	

			Н	Long-term Stock Exchange MIAX Exchange	
Sub Market Center	sub_market_center	string		ub-market where the execution occurred	d.
			Code	Value	
			N	FINRA / NYSE Trade Reporting Facility	
			Q	FINRA / Nasdaq Trade Reporting Facility Carteret	
			В	FINRA / Nasdaq TRF Chicago	
			Space	Trade originates from FINRA Alternative Display Facility	
MSN	msn	int		ence Number from the UTDF level 1 d 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	For more information on Sales Condition codes, please refer to:  • Section 7.5.1 of the UTP Trade Data Feed Specification for NASDAQ-listed securities  • Section 7.0 of the Consolidated Tape System Specification for NYSE and AMEX- listed securities		
Trade Date	trade_date	string	Timestamp of	the trade.	

```
{
  "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

Field	Name	Туре	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	Indicates th	e market tiers. Allowable values are:
			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
Round Lot Size	round_lot_size	int	Value of rou	und lot size.
Financial Status Indicator	financial_status_indicat or	string	e financial status, which is only available for cks. Allowable values are:	
			Code	Value
			N	Normal
			Q	Bankrupt
			E	Delinquent (Late Filing)
			J	Delinquent and Bankrupt
			D	Deficient (Below Listing Standards)
			G	Deficient and Bankrupt
			Н	Deficient and Delinquent
			K	Deficient, Delinquent, and Bankrupt
			S	Suspended, Pending, Delisting

```
"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"
}
```

Field	Name	Туре	Description	
Message Type	msg_type	string	H (constant	: value)
Source Market Center	source_market_center	string	Originating	market center.
Timestamp	action_time	string	SIP timesta dd'T'HH:mr	mp - Date in format: yyyy-MM- n:ss.SSS
Symbol	symbol	string	Issue symbo	ol of the security.
SIP Feed	sipfeed	string	SIP feed ide	entifier.
SIP Sequence ID	sipfeed_seq	int	SIP feed ID.	
Action Code	action	int	Indicates the trading actions. Allowable values ar	
			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

Reason Code	reason	int	Indicates th	e trading actions. Allowable values a
			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

T T		
	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)	

```
"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

Field	Name	Туре	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 th	e trading actions. Allowable values are:	
			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	reason	int	Indicates th	e trading actions. Allowable values are:
			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 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 3 35 Market Wide Circuit Breaker Level 3 36 Market Wide Circuit Breaker Level 3 37 Market Wide Circuit Breaker Level 3 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			
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 Level 3 37 Market Wide Circuit Breaker Level 3 38 Market Wide Circuit Breaker Level 3 39 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		19	
Quoting  22 Qualifications Resolved  23 Fillings Resolved  24 Issuer News Not Forthcoming  25 Requirements Met  26 Fillings 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 3  35 Market Wide Circuit Breaker Level 3  36 Market Wide Circuit Breaker Level 3  37 Market Wide Circuit Breaker Level 3  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		20	Single Stock Pause
Filings Resolved    Issuer News Not Forthcoming		21	_
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 3   35   Market Wide Circuit Breaker Level 3   36   Market Wide Circuit Breaker Level 3   36   Market Wide Circuit Breaker Level 3   37   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		22	Qualifications Resolved
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 Level 3  37 Market Wide Circuit Breaker Acevel 3  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		23	Filings Resolved
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 Level 3 37 Market Wide Circuit Breaker Level 3 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		24	
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 Level 3 37 Market Wide Circuit Breaker Level 3 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		25	Requirements Met
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 – Resumption  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		26	Filings Met
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 Level 3 37 Market Wide Circuit Breaker – Carryover from Prior Day 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		27	
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 – Carryover from Prior Day 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		28	New Issue Available
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		29	Issue Available
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		30	IPO – Not Yet Trading
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		31	
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		32	IPO – Window Extension
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		33	
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		34	
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		35	
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		36	Breaker – Carryover from
39 Pre-Cross 40 Cross 41 SEC Revocation 42 Foreign Market Regulatory 43 Component Derivative Of Exchange Listed 44 Extraordinary Events 45 Security Deletion		37	
40 Cross  41 SEC Revocation  42 Foreign Market Regulatory  43 Component Derivative Of Exchange Listed  44 Extraordinary Events  45 Security Deletion		38	Post-Close
41 SEC Revocation  42 Foreign Market Regulatory  43 Component Derivative Of Exchange Listed  44 Extraordinary Events  45 Security Deletion		39	Pre-Cross
42 Foreign Market Regulatory  43 Component Derivative Of Exchange Listed  44 Extraordinary Events  45 Security Deletion		40	Cross
43 Component Derivative Of Exchange Listed  44 Extraordinary Events  45 Security Deletion		41	SEC Revocation
Exchange Listed  44 Extraordinary Events  45 Security Deletion		42	Foreign Market Regulatory
45 Security Deletion		43	I I
		44	Extraordinary Events
46 Internal Halt		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)

```
{
  "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

Field	Name	Туре	Description	1
Message Type	msg_type	string	N (constant	t value)
Symbol	symbol	string	Issue symb	ol of the security.
SIP Feed	sipfeed	string	Feed on wh	nich Quote was reported.
SIP Sequence ID	sipfeed_seq	int	SIP feed ID	
Bid Market Center	bid_market_center	string	Allowable v	values are:
			Code	Value
			Q	The NASDAQ Stock Market, LLC
			N	New York Stock Exchange, LLC
			В	NASDAQ BX, Inc.
			E	Market Independent
			D	FINRA Alternative Display Facility
			Z	Cboe BZX Exchange, Inc
			Т	The NASDAQ Stock Market, LLC
			I	International Securities Exchange
			U	Members Exchange
			W	Cboe Stock Exchange
			u	OTC Markets Group
			J	Cboe EDGA Exchange, Inc.
			М	Chicago Stock Exchange
			Υ	Cboe BYX Exchange, Inc.
			С	NYSE National, Inc.
			X	NASDAQ PSX, Inc.
			А	NYSE American, LLC
			K	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange

			Н	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	Allowable va	alues are:	
			Code	Value	
			Q	The NASDAQ Stock Market, LLC	
			N	New York Stock Exchange, LLC	
			В	NASDAQ BX, Inc.	
		E	Market Independent		
		D	FINRA Alternative Display Facility		
		Z	Cboe BZX Exchange, Inc		
		Т	The NASDAQ Stock Market, LLC		
			1	International Securities Exchange	
			U	Members Exchange	
			W	Cboe Stock Exchange	
			u	OTC Markets Group	
			J	Cboe EDGA Exchange, Inc.	
			M	Chicago Stock Exchange	
			Υ	Cboe BYX Exchange, Inc.	
			С	NYSE National, Inc.	
			X	NASDAQ PSX, Inc.	
			А	NYSE American, LLC	
			К	Cboe EDGX Exchange, Inc.	
			Р	NYSE Arca, Inc	
			L	Long-term Stock Exchange	
			Н	MIAX Exchange	
Ask Price	ask_price	Float	The price a	seller states they will accept.	

Ask Quantity	ask_quantity	Int		y of a security that investors are willing to a specified bid price.
Quote Conditions	quote_conditions	string	Indicates th	e quote conditions. Allowable values are:
			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	

```
"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)

Field	Name	Туре	Description	
Message Type	msg_type	string	P (constant	value)
Market Center	market_center	string	Indicates the market where the execution occurred. Allowable values are:	
			Code	Value
			Q	The NASDAQ Stock Market, LLC
			N	New York Stock Exchange, LLC
			В	NASDAQ BX, Inc.
			E	Market Independent
			D	FINRA Alternative Display Facility
			Z	Cboe BZX Exchange, Inc
			Т	The NASDAQ Stock Market, LLC
			I	International Securities Exchange
			U	Members Exchange
		<u>  w</u>	W	Cboe Stock Exchange
			u	OTC Markets Group
			J	Cboe EDGA Exchange, Inc.
			М	Chicago Stock Exchange
			Υ	Cboe BYX Exchange, Inc.
			С	NYSE National, Inc.
			X	NASDAQ PSX, Inc.
			А	NYSE American, LLC
			К	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange
			Н	MIAX Exchange
Timestamp	timestamp	string	Date in forn	nat: 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	Indicates the LULD price brand. Allowable values are:	
			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.	

```
"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)

Field	Name	Туре	Description	
Message Type	msg_type	string	D (constant value)	
Market Center	market_center	string	Indicates the market where the execution occurred. Allowable values are:	
			Code	Value
			Q	The NASDAQ Stock Market, LLC
			N	New York Stock Exchange, LLC
			В	NASDAQ BX, Inc.
			Е	Market Independent
			D	FINRA Alternative Display Facility
			Z	Cboe BZX Exchange, Inc
			Т	The NASDAQ Stock Market, LLC
			1	International Securities Exchange
			U	Members Exchange
			W	Cboe Stock Exchange
			u	OTC Markets Group
			J	Cboe EDGA Exchange, Inc.
			М	Chicago Stock Exchange
			Υ	Cboe BYX Exchange, Inc.
			С	NYSE National, Inc.
			X	NASDAQ PSX, Inc.
			A	NYSE American, LLC
			К	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange
			Н	MIAX Exchange
Timestamp	timestamp	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS	

MWCB Status	mwcb_status	string	Indicates the market wide circuit breaker status. Allowable values are:		
			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)	

```
"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

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

rket Center	market_center	string	Allowable values are:	
			Code	Value
			Q	The NASDAQ Stock Market, LLC
			N	New York Stock Exchange,
			В	NASDAQ BX, Inc.
			Е	Market Independent
			D	FINRA Alternative Display Facility
			Z	Cboe BZX Exchange, Inc
			Т	The NASDAQ Stock Market, LLC
			ı	International Securities Exchange
			U	Members Exchange
			W	Cboe Stock Exchange
			u	OTC Markets Group
			J	Cboe EDGA Exchange, Inc.
			М	Chicago Stock Exchange
			Υ	Cboe BYX Exchange, Inc.
			С	NYSE National, Inc.
			X	NASDAQ PSX, Inc.
			А	NYSE American, LLC
			К	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange
			Н	MIAX Exchange
Timestamp	timestamp	string	Date in forn	nat: 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 M\	WCB level 2
MWCB Level 3	mwcb_level_3	float	Value of M\	NCB level 3

```
"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

Field	Name	Туре	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:		
			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 a	
			Code	Value
			0	None / Not In Effect
			1	Day 1 – Activated
			2	Day 2 – Continued

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

### Change control log

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