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
ОТСВВ	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 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	ion		
Message Type	msg_type	string	S = System Message			
Upstream Sequence ID	upstream_seq	long	Quote se	equence number.		
Event Code	event	string	Events for which the message is being generated. values:			
			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		
			Code	Value		
		Q	Q	The NASDAQ Stock Market, LLC		
			N	New York Stock Exchange, LLC		
			В	NASDAQ BX, Inc.		
			Е	Market Independent		
					D FINRA AI Facility	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	Other OTC Markets
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

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

Sample

```
"msg_type": "S",
"event_code": "*SOD",
"market_center": "",
"upstream_seq": 1
}
```

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.		
Upstream Sequence ID	upstream_seq	long	Quote sequence number.		
Market Center	market_center	string	Indicates the market center code that originated to message.		
			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	

			U W u	International Securities Exchange Members Exchange Cboe Stock Exchange Other OTC Markets Cboe EDGA Exchange, Inc.
			M	Chicago Stock Exchange
			Y	Cboe BYX Exchange, Inc.
			C X	NYSE National, Inc. NASDAQ PSX, Inc.
			А	NYSE American, LLC
			К	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange
			н	MIAX Exchange
Bid Price	bid_price	double		price at the market center that someone is y a security at the given time.
Bid Quantity	bid_quantity	int	Number of s	shares available at the Market Center's bid ven security.
Ask Price	ask_price	double	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	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	Actual start time of the Quote.	

```
"type": "record",
"name": "QuoteMessage",
"namespace": "com.nasdaq.cqt",
"fields": [
  "name": "msg_type",
  "type": "string"
},
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  "type": "string"
  "name": "sipfeed",
  "type": "string"
  "name": "upstream_seq",
  "type": "long"
  "name": "market_center",
  "type": "string"
},
  "name": "bid_price",
  "type": "double"
  "name": "bid_quantity",
  "type": "int"
  "name": "ask_price",
  "type": "double"
  "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",
    "upstream_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.
Upstream Sequence ID	upstream_seq	long	sequence number.
Price	price	double	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					
			u	Other OTC Markets					
			V	Investors' Exchange LLC					
Market Center	market_center	string	Indicates th Allowable v	e market where the execution occurred. alues are:					
			Code	Value					
			Q	The NASDAQ Stock Market, LLC					
			N	New York Stock Exchange, LLC					
			В	NASDAQ BX, Inc.					
			E	Market Independent					
									D
			Z	Cboe BZX Exchange, Inc					
					Т	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.					
			М	Chicago Stock Exchange					
			Υ	Cboe BYX Exchange, Inc.					
			С	NYSE National, Inc.					
			×	NASDAQ PSX, Inc.					
			Α	NYSE American, LLC					
			К	Cboe EDGX Exchange, Inc.					
			P	NYSE Arca, Inc					

			L	Long-term Stock Exchange
			Н	MIAX Exchange
Sub Market Center	sub_market_center	string	Indicates the sub-market where the execution occurre Allowable values are:	
			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	long	_	quence Number from the UTDF level 1 ed as a trade identifier.
OMSN	omsn	long	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 <u>UTP Trade Data Feed Specification</u> for NASDAQ-listed securities Section 7.0 of the <u>Consolidated Tape System Specification</u> for NYSE and AMEX-listed securities 	
Trade Date	trade_date	string	Timestamp o	of the trade.

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

```
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 "type": "string"
 "name": "price",
 "type": "double"
 "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": "long"
 "name": "omsn",
 "type": "long"
 "name": "sales_conditions",
"type": "string"
},
"name": "trade_date",
"type": "string"
},
```

```
"name": "upstream_seq",
  "type": "long"
],
"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",
  "upstream_seq": 1
}
```

Issue Symbol

Field	Name	Туре	Description
Message Type	msg_type	string	B (constant value)
Symbol	symbol	string	Issue symbol of the security.
Upstream Sequence	upstream_seq	long	Quote sequence number.
Name	security_name	string	Indicates security name.

Market Tier market_tier		string	Indicates the 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	nd lot size.	
Financial Status financial_status_indicator or	string	Indicates the financial status, which is only available for Nasdaq stocks. 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	
				К	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"
  },
   "name": "upstream_seq",
   "type": "long"
  }
 ],
 "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",
  "upstream_seq": 1
}
```

Trading Action

Field	Name	Туре	Description		
Message Type	msg_type	string	H (constant	H (constant value)	
Symbol	symbol	string	Issue symbo	l of the security.	
SIP Feed	sipfeed	string	SIP feed ider	ntifier.	
Upstream Sequence	upstream_seq	long	sequence nu	umber.	
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		
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 Quoting State)	

Reason Code	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

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": [
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  "type": "string"
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  "name": "source_market_center",
  "type": "string"
  "name": "action_time",
  "type": "string"
  "name": "symbol",
  "type": "string"
  "name": "sipfeed",
  "type": "string"
  "name": "upstream_seq",
  "type": "long"
  "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",
    "upstream_seq": 1,
    "action": 1,
    "reason": 0
}
```

Market Center Trading Action

Field	Name	Туре	Description		
Message Type	msg_type	string	K (constant value)		
Symbol	symbol	string	Issue symbol of the security.		
SIP Feed	sipfeed	string	SIP feed identifier.		
Upstream Sequence	upstream_seq	long	sequence number.		
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		
Action Code	action	int	Indicates the 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	int	Indicates the	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 –

22	Quoting Qualifications Resolved
	Qualifications nestived
	Filings Resolved
23	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)

```
"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": "upstream_seq",
    "type": "long"
    "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",
  "upstream_seq": 1,
  "action": 3,
  "reason": 54
```

NBBO Quote Message

Field	Name	Туре	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.		
Upstream Sequence ID	upstream_seq	long	sequence number.		
Start Time	start_time	string	format: yyyy-MM-dd'T'HH:mm:ss.SSS		
Bid Market Center	bid_market_center	string	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	
			I	International Securities Exchange	
			U	Members Exchange	
			W	Cboe Stock Exchange	
			u	Other OTC Markets	
			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	
Bid Price	bid_price	double	The price that prepared to	at a dealer or other prospective buyer is 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 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	Other OTC Markets	
			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	
Ask Price	ask_price	double	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:		
			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

```
"type": "record",
"name": "NBBOQuoteMessage",
"namespace": "com.nasdaq.cqt",
"fields": [
  "name": "msg_type",
  "type": "string"
  "name": "symbol",
  "type": "string"
 },
  "name": "sipfeed",
  "type": "string"
  "name": "upstream_seq",
  "type": "long"
  "name": "bid_market_center",
  "type": "string"
 "name": "bid_price",
  "type": "double"
  "name": "bid_quantity",
  "type": "int"
  "name": "ask_market_center",
```

```
"type": "string"
    "name": "ask_price",
    "type": "double"
    "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",
   "upstream_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)

Symbol	symbol	string	Issue symbol o	of the security.
Upstream Sequence	upstream_seq	long	sequence num	nber.
Timestamp	timestamp	string	Date in format	t: yyyy-MM-dd'T'HH:mm:ss.SSS
Market Center	market_center	string	Indicates the r Allowable valu	market where the execution occurred. ues 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	Other OTC Markets
			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

LULD Price Band Indicator	luld_price_band_indicat or	int	Indicates th	ne 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 forr	mat: yyyy-MM-dd'T'HH:mm:ss.SSS
Limit Down Price	limit_down_price	double	Price for lin	nit down.
Limit Up Price	limit_up_price	double	Price for lin	nit up.

```
{
  "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": "symbol",
            "type": "string"
      },
      {
            "name": "luld_price_band_indicator",
            "name": "luld_price_band_indicator",
      }
}
```

```
"type": "int"
    "name": "luld_time",
    "type": "string"
    "name": "limit_down_price",
    "type": "double"
    "name": "limit_up_price",
    "type": "double"
   },
    "name": "upstream_seq",
    "type": "long"
   }
  ],
  "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,
  "upstream_seq": 1
```

Field	Name	Туре	Description	
Message Type	msg_type	string	D (constant value)	
Upstream Sequence ID	upstream_seq	long	sequence number.	
Timestamp	timestamp	string	Date in form	mat: yyyy-MM-dd'T'HH:mm:ss.SSS
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.
			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	Other OTC Markets
			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
			K	Cboe EDGX Exchange, Inc.
			Р	NYSE Arca, Inc
			L	Long-term Stock Exchange

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

Sample

```
{
    "msg_type": "D",
    "market_center": "",
    "timestamp": "2021-06-02T00:00:00.000",
    "mwcb_status": "*MW1",
    "upstream_seq": 1
}
```

MWCB Decline Level

Field	Name	Туре	Description
Message Type	msg_type	string	C (constant value)
Upstream Sequence	upstream_seq	long	sequence number.
Timestamp	timestamp	string	Date in format: yyyy-MM-dd'T'HH:mm:ss.SSS

Market Center market_o	market_center	string	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	
		W	Cboe Stock Exchange		
		u	Other OTC Markets		
			J	Cboe EDGA Exchange, Inc.	
			М	Chicago Stock Exchange	
			Υ	Cboe BYX Exchange, Inc.	
			С	NYSE National, Inc.	
			×	NASDAQ PSX, Inc.	
			Α	NYSE American, LLC	
			К	Cboe EDGX Exchange, Inc.	
			Р	NYSE Arca, Inc	
			L	Long-term Stock Exchange	
			Н	MIAX Exchange	
MWCB Level 1	mwcb_level_1	double	Value of M\	WCB level 1	
MWCB Level 2	mwcb_level_2	double	Value of M\	WCB level 2	
MWCB Level 3	mwcb_level_3	double	Value of M\	WCB 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": "double"
    "name": "mwcb_level_2",
    "type": "double"
    "name": "mwcb_level_3",
    "type": "double"
    "name": "upstream_seq",
    "type": "long"
   }
  ],
  "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,
  "upstream_seq": 1
}
```

Regulation SHO Restriction Indicator

Field	Name	Туре	Description
Message Type	msg_type	string	V (constant value)
Symbol	symbol	string	Issue symbol of the security.
SIP Feed	sipfeed	string	SIP feed identifier.
Upstream Sequence	upstream_seq	long	sequence number.
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
Action Code	action	int	Indicates the regulation SHO actions. Allowable values are:
			Code Value Short Sale Restriction Not In
			0 Effect
			1 Short Sale Restriction In Effect

Reason Code	reason	int	Indicates the regulation SHO reasons. Allowable va	
			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": "upstream_seq",
  "type": "long"
 },
  "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",
   "upstream_seq": 1,
   "action": 0,
   "reason": 0
}
```

Change control log

Version	Change Date	Description	
V2	04/14/2022	 Each message on CQT will have a new field `upstream_seq`, which is a unique identifier of the record for feed on given market day. This helps clients to remove duplicates if we have any and better align with other real time data feeds in NCDS. 	
		 Float fields have converted to double. These provide better precision and align with other NCDS objects. 	
		 In trade messages, we converted msn and omsn fields from int to long. This provides the ability to determine the order of trades which are happening in the same millisecond. 	
		 In quote messages, we change sipfeed_seq (int) to upstream_seq (long). 	
V1	08/27/2021	Added OTCBB in CQT	
V1	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.m essaging.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