## 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. 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 <a href="LinkedIn">LinkedIn</a>, on Twitter <a href="@Nasdaq">@Nasdaq</a>, or at <a href="https://www.nasdaq.com">www.nasdaq.com</a>.

#### Delivery

Nasdaq Data Link provides a modern and efficient method of delivery for real-time 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 Nasdaq Data Link 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

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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	Description	
Message Type	msg_type	string	S = System Message	
Upstream Sequence ID	upstream_seq	long	Quote se	quence number.
Event Code	event	string	Events for which the message is being generated. Povalues:	
			Code	Value
			*SOD	Start of Day
			*МКО	Market Open
			*MKC	Market Close
			*EOD	End of Day
Impacted Market Center	market_center	string		d if it affects a market center
			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.
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

## 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 t 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	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
			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 price in a giv	hares available at the Market Center's bid en security.
Ask Price	ask_price	double	-	orice at the market center that someone is
Ask Quantity	ask_quantity	int		orice at the market center that someone is
Quote Condition	quote_conditions	string	Indicates the	e quote conditions. Allowable values are:
			Code	Value
			None	None Provided
			R	Regular
			Α	Slow on Ask
			В	Slow on Bid
			С	Closing
			D	News Dissemination
			F	Slow on Ask (LRP or
				Gap Quote)
			E	Slow on Bid (LRP or

	Gap Quote)
G	Trading Range Indication
Н	Slow on Bid and Ask
1	Order Imbalance
J	Due to Related – News Dissemination
K	Due to Related – News Pending
0	Open
L	Closed
М	Volatility Trading Pause
N	Non-Firm Quote
0	Opening
Р	News Pending
S	Due to Related
Т	Resume
U	Slow on Bid and Ask (LRP or Gap Quote)
V	In View Of Common
W	Slow on Bid and Ask (Set Slow List)
X	Equipment Changeover
Υ	Sub-Penny Trading
Z	No Open / No Resume
F	Fast Trading
U	Slow on Bid and Ask (Non-Firm)
One- Sided	One-Sided
Х	Order Influx
0	Special Opening Quote

Halted	Halted
Benchm	Benchmark
Implied	Implied
Exchang e Best	Exchange Best
1	Market Wide Circuit Breaker Level 1
2	Market Wide Circuit Breaker Level 2
3	Market Wide Circuit Breaker Level 3
Rotatio n	Rotation
Auto Exec Eligible	Auto Exec Eligible
Bid Side Firm	Bid Side Firm
Ask Side Firm	Ask Side Firm
4	On Demand Intra- Day Auction
Indicativ e Value (OPRA)	Indicative Value (OPRA)
45	Additional Information Required (CTS)
46	Regulatory Concern (CTS)
47	Merger Effective (CTS)
48	ETF Component Prices Not Available (CTS)
49	Corporate Action (CTS)

			50	New Security Offering (CTS)
			51	Intraday Indicative Value Unavailable (CTS)
Start Time	start_time	string	Actual start time o	f 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": "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		
			A	NYSE American		
			Р	NYSE Arca		
			u	Other OTC Markets		
			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.		
			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		
			K	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 s	es the sub-market where the execution occurred. ole 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		uence Number from the UTDF level 1 d as a trade identifier.	
OMSN	omsn	long		correction and cancel records and original trade to which the tion applies.	
Sales Condition	sales_conditions	string	refer to:  • Section 7  Feed Spection 7  securities • Section 7	.0 of the <u>Consolidated Tape</u> <u>pecification</u> for <i>NYSE and AMEX</i> -	
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": "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	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. I	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_indicat string or		string		e financial status, which is only available for ks. 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
			H	Deficient and Bankrupt  Deficient and Delinquent

```
"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 value)	
Symbol	symbol	string	Issue symbol of the security.	
SIP Feed	sipfeed	string	SIP feed identifier.	
Upstream Sequence ID	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 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)

ason Code	reason	int	Indicates th	e trading actions. Allowable valu
			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

1	11	
	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": "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	

		T		1
			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 –

		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": "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 wh	ich Quote was reported.
Upstream Sequence	upstream_seq	long	sequence number.	
Start Time	start_time	string	format: yyy	y-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.
			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	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.
			Α	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 th prepared to	nat 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 t 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		ty of a security that investors are willing to t a specified bid price.	

Quote Conditions	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

```
"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	of the security.
Upstream Sequence	upstream_seq	long	sequence nu	mber.
Timestamp	timestamp	string	Date in forma	at: yyyy-MM-dd'T'HH:mm:ss.SSS
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
		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.
			Α	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	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 forr	nat: yyyy-MM-dd'T'HH:mm:ss.SSS
Limit Down Price	limit_down_price	double	Price for lim	nit down.
Limit Up Price	limit_up_price	double	Price for lim	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": "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	Description	
Message Type	msg_type	string	D (constant v	D (constant value)	
Upstream Sequence ID	upstream_seq	long	sequence nu	sequence number.	
Timestamp	timestamp	string	Date in form	at: yyyy-MM-dd'T'HH:mm:ss.SSS	
Market Center	market_center	string	Indicates the Allowable va	e market where the execution occurred. llues 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	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	
			K	Cboe EDGX Exchange, Inc.	
			Р	NYSE Arca, Inc	
			L	Long-term Stock Exchange	

			Н	MIAX Exchange
MWCB Status	mwcb_status	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)

```
{
  "type": "record",
  "name": "MarketWideCircuitBreaker",
  "namespace": "com.nasdaq.cqt",
  "fields": [
    {
        "name": "msg_type",
        "type": "string"
    },
    {
        "name": "string"
    },
    {
        "name": "timestamp",
        "type": "string"
    },
    {
        "name": "mwcb_status",
        "type": "string"
    },
    {
        "name": "upstream_seq",
        "type": "long"
    }
},
    "version": "1"
```

### 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_center	string	Allowable v	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
			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
MWCB Level 1	mwcb_level_1	double	Value of MV	WCB level 1
MWCB Level 2	mwcb_level_2	double	Value of MV	WCB level 2
MWCB Level 3	mwcb_level_3	double	Value of MV	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	
			0 Short Sale Restriction Not In Effect	
			1 Short Sale Restriction In Effect	

Reason Code	reason	int	Indicates the re	egulation SHO reasons. Allowable values are:
			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": "2021-06-02T00:00:00:00.000",
    "symbol": "AAPL",
    "sipfeed": "UQDF112",
    "upstream_seq": 1,
    "action": 0,
    "reason": 0
}
```

# Change control log

Version	Change Date	Description
V2	04/14/2022	<ul> <li>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 Nasdaq Data Link.</li> </ul>
		<ul> <li>Float fields have converted to double. These provide better precision and align with other Nasdaq Data Link streaming objects.</li> </ul>
		<ul> <li>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.</li> </ul>
		<ul> <li>In quote messages, we change sipfeed_seq (int) to upstream_seq (long).</li> </ul>
V1	08/27/2021	Added OTCBB in CQT
V1	06/03/2021	The following fields have been added in <b>System Event Message</b> :  • Impacted Market Center
		The following fields have been removed in <b>System Event Message</b> :
		<ul> <li>Nanoseconds (Timestamp in nanoseconds from midnight)</li> </ul>
		The following fields have been removed from <b>Quotes</b> :
		<ul><li>end_time</li><li>Removed suffix "Z" from timestamps</li></ul>
		The following fields have been renamed in <b>Quotes</b> :  • 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