

Last Sale (Trade) Products

Products Overview

This specification represents the schema for Last Sale Products published on Nasdaq Data Link Streaming connections.

Market data distributors are encouraged to use NLS Plus to create enhanced Nasdaq Last Sale and Nasdaq Basic displays such as real-time stock tickers, portfolio trackers, trade alert programs, time and sales graphs.

In addition to the NLS Plus product, Nasdaq Provides other last sale feeds as indicated below:

- Nasdaq Last Sale: Contains trade data from the Nasdaq Execution system
- PSX Last Sale: Contains trade data from the PSX execution system
- NASDAQ TEXAS Last Sale: Contains trade data from the NASDAQ TEXAS execution system
- Bruce: Direct data feed product offered by the Bruce ATS.

[Nasdaq Last Sale \(NLS\) Plus](#) is a direct data feed product offered by The Nasdaq Stock Market. NLS Plus will cover the full range of issues including Nasdaq, New York Stock Exchange, and other U.S. regional exchange listed securities. NLS plus is a comprehensive, affordable data feed providing intraday consolidated volume, end of day consolidated pricing, and additional IPO information. NLS Plus includes all trade data from the following Nasdaq markets for U.S. exchange-listed securities:

- The Nasdaq Stock Market (Nasdaq)
- FINRA Trade Reporting Facility® (TRF®) operated by Nasdaq ("FINRA/Nasdaq TRF")
- Nasdaq NASDAQ TEXAS (NASDAQ TEXAS)
- Nasdaq PSX (PSX)

Please see below for Feeds and Topic Names:

Feed	Topic Name	Timing
NLS+	NLSPLUS-UTP-V4	Realtime
NLS+	NLSPLUS-CTA-V4	Realtime
NLS+	NLSPLUS-CTA-V4-DELAYED	Delayed
NLS+	NLSPLUS-UTP-V4-DELAYED	Delayed
NASDAQ TEXAS Last Sale	LSBX-V4	Realtime
PSX Last Sale	LSPSX-V4	Realtime
Bruce Last Sale	LS-BRUCE-V4	Realtime

Nasdaq Investment Intelligence equips investors with the tools to make informed decisions by providing innovative real-time and historical analytic products and intelligent solutions designed to tap new data sets and meet new industry challenges. Nasdaq Data Cloud Services via Quandl eliminates infrastructure and resource obstacles from collecting and storing large data sets, providing tools with industry adopted open standards to ingest and analyze market data and other financial information. To learn more about the company, technology solutions and career opportunities, visit us on [LinkedIn](#), on Twitter [@Nasdaq](#), or at [www.nasdaq.com](#).

Data Types

All integer fields are big-endian (network byte order) binary encoded numbers. Unless otherwise noted, they are unsigned.

All alphanumeric fields are ASCII fields which are left justified and padded on the right with spaces.

Timestamps reflects the Nasdaq system time at which the outbound message was generated. Nasdaq states time as the number of nanoseconds past midnight. The time zone is U.S. Eastern Time.

Timestamp for Bruce feeds reflect the system time when the outbound message was generated and are represented as the number of nanoseconds since the start of the unix epoch (January 1, 1970).

Delivery

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

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

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

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Message Formats

System Event Message

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

Details

Field	Name	Type	Description										
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.										
Tracking Number	trackingID	int	Message Tracking number. Always 0 for Bruce.										
Timestamp	timestamp	timestamp	timestamp										
Message Type	msgType	string	S = System Event										
Event Code	event	string	<p>NLS Plus events for which the message is being generated. Possible values:</p> <table border="1"><thead><tr><th>Code</th><th>Value</th></tr></thead><tbody><tr><td>O</td><td>Start of Transmissions: Denotes that the system has started its daily transmission schedule.</td></tr><tr><td>S</td><td>Start of System Hours: This message indicates that Nasdaq /Bruce is open and ready to start accepting orders.</td></tr><tr><td>Q</td><td>Start of Market Hours: Denotes the start of the regular US market session. Traditionally, only trade transactions reported during the regular market session are considered to be “last sale” eligible.</td></tr><tr><td>M</td><td>End of Market Hours: Denotes the end of the regular US session OR that Market Hours are no longer available for execution (Bruce)</td></tr></tbody></table>	Code	Value	O	Start of Transmissions: Denotes that the system has started its daily transmission schedule.	S	Start of System Hours: This message indicates that Nasdaq /Bruce is open and ready to start accepting orders.	Q	Start of Market Hours: Denotes the start of the regular US market session. Traditionally, only trade transactions reported during the regular market session are considered to be “last sale” eligible.	M	End of Market Hours: Denotes the end of the regular US session OR that Market Hours are no longer available for execution (Bruce)
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M	End of Market Hours: Denotes the end of the regular US session OR that Market Hours are no longer available for execution (Bruce)												

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqSystemEventMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "event", "type" : "string" }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 1, "trackingID": 0, "timestamp": 7228617981499, "msgType": "S", "event": "O" }</pre>

Trade Report

The following message is used to relay Nasdaq/Bruce execution system and TRF trade transactions that are reported for the current business day. Please note that Nasdaq only reports one-side of a trade execution on the Nasdaq Last Sale (NLS Plus) feed and other data feed products. See Appendix B for a description of each sale condition modifier.

Details

Field	Name	Type	Description
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Tracking Number	trackingID	int	Message Tracking number. Always 0 for Bruce.
Timestamp	timestamp	timestamp	timestamp

Client Timestamp	timestamp2	timestamp	TRF reported timestamp. Set to 0 for non-TRF trades. Only available on NLS+.																
Message Type	msgType	string	"e" = Trade Report																
Originating Market Center Identifier	marketCenter	string	<p>Denotes the Nasdaq market system that generated the trade report message. The allowable values are:</p> <table border="1" data-bbox="975 566 1470 994"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>The Nasdaq Stock Market</td></tr> <tr> <td>L</td><td>Nasdaq/FINRA Trade Reporting Facility (TRF) Cartaret</td></tr> <tr> <td>2</td><td>Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago</td></tr> <tr> <td>B</td><td>Nasdaq Texas</td></tr> <tr> <td>X</td><td>Nasdaq PSX (PSX)</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Value	Q	The Nasdaq Stock Market	L	Nasdaq/FINRA Trade Reporting Facility (TRF) Cartaret	2	Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago	B	Nasdaq Texas	X	Nasdaq PSX (PSX)				
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B	Nasdaq Texas																		
X	Nasdaq PSX (PSX)																		
Issue Symbol	symbol	string	<p>Denotes the Nasdaq-assigned issue symbol of the security for which the trade report is being generated. For details on Nasdaq symbology, please refer to Appendix C.</p>																
Security Class	securityClass	string	<p>Indicates the primary listing market for the issue. Allowable values are:</p> <table border="1" data-bbox="975 1368 1470 1691"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>N</td><td>NYSE</td></tr> <tr> <td>A</td><td>NYSE American</td></tr> <tr> <td>P</td><td>NYSE Arca</td></tr> <tr> <td>M</td><td>NYSE Texas</td></tr> <tr> <td>Z</td><td>BATS</td></tr> <tr> <td>V</td><td>Investors' Exchange</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	M	NYSE Texas	Z	BATS	V	Investors' Exchange
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Z	BATS																		
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Trade Control Number	controlNumber	string	Indicates the source's internal control number associated with the given trade transaction. Please note that for Nasdaq, NASDAQ TEXAS, and PSX, the Trade Control Number is specific to the source system reflected in the Market Center ID field. This number is used as a key field for trade cancellations and trade corrections.																										
Trade Price	price	double	The price associated with the trade transaction being reported. Refer to Data Types for field processing.																										
Trade Size	size	double	Indicates the reported number of shares on the trade transaction.																										
Sale Condition Modifier	saleCondition	string	<p>Sale condition modifier consists of four levels as defined below.</p> <p>Level 1 Used for Settlement Type information. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>@</td><td>Regular Settlement</td></tr> <tr> <td>C</td><td>Cash Settlement</td></tr> <tr> <td>N</td><td>Next Day Settlement</td></tr> <tr> <td>R</td><td>Seller Settlement</td></tr> </tbody> </table> <p>Level 2 Used for SEC Regulation NMS Trade Through Exemption Codes. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>F</td><td>Intermarket Sweep</td></tr> <tr> <td>O</td><td>Opening Print</td></tr> <tr> <td>4</td><td>Derivative Priced</td></tr> <tr> <td>5</td><td>Re-Opening Print</td></tr> <tr> <td>6</td><td>Closing Print</td></tr> <tr> <td>7</td><td>Qualified Contingent Trade (QCT)</td></tr> <tr> <td><space></td><td>Not applicable</td></tr> </tbody> </table>	Code	Value	@	Regular Settlement	C	Cash Settlement	N	Next Day Settlement	R	Seller Settlement	Code	Value	F	Intermarket Sweep	O	Opening Print	4	Derivative Priced	5	Re-Opening Print	6	Closing Print	7	Qualified Contingent Trade (QCT)	<space>	Not applicable
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7	Qualified Contingent Trade (QCT)																												
<space>	Not applicable																												

			<p>Level 3 Used for Extended Hours or Sold Codes. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>T</td><td>Extended Hours Trade</td></tr> <tr> <td>U</td><td>Extended Hours Trade – Reported Late or Out of Sequence</td></tr> <tr> <td>L</td><td>Sold Last – Reported Late But In Sequence</td></tr> <tr> <td>Z</td><td>Sold – Out of Sequence</td></tr> <tr> <td><space></td><td>Not applicable</td></tr> </tbody> </table> <p>Level 4 Used for special sale condition codes. Please note that this field is case sensitive. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>A</td><td>Acquisition</td></tr> <tr> <td>B</td><td>Bunched</td></tr> <tr> <td>D</td><td>Distribution</td></tr> <tr> <td>H</td><td>Price Variation Transaction</td></tr> <tr> <td>M</td><td>Nasdaq Official Close Price (NOCP)</td></tr> </tbody> </table>	Code	Value	T	Extended Hours Trade	U	Extended Hours Trade – Reported Late or Out of Sequence	L	Sold Last – Reported Late But In Sequence	Z	Sold – Out of Sequence	<space>	Not applicable	Code	Value	A	Acquisition	B	Bunched	D	Distribution	H	Price Variation Transaction	M	Nasdaq Official Close Price (NOCP)
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Code	Value																										
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B	Bunched																										
D	Distribution																										
H	Price Variation Transaction																										
M	Nasdaq Official Close Price (NOCP)																										
Consolidated Volume	consolidatedVolume	Double	<p>Reflects the volume for the Issue Symbol as reported on the consolidated market data feed at the time that the trade message was generated. See Appendix A for calculation and dissemination information for this data element.</p> <p>Only available on NLS+.</p>																								

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqTradeReportMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "timestamp2", "type" : ["null", "long"] }, { "name" : "msgType", "type" : "string" }, { "name" : "marketCenter", "type" : ["null", "string"] }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : ["null", "string"] }, { "name" : "controlNumber", "type" : "string" }, { "name" : "price", "type" : "double" }, { "name" : "size", "type" : "double" }, { "name" : "saleCondition", "type" : ["null", "string"] }, { "name" : "consolidatedVolume", "type" : ["null", "double"] }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7228617981499, "timestamp2": 7228617981499, "msgType": "e", "marketCenter": "Q", "symbol": "ZVZT", "securityClass": "Q", "controlNumber": "12345", "price": 101.12, "size": 500, "saleCondition": "@4LB", "consolidatedVolume": 25542 }</pre>

Trade Cancel/Error

The following message is used in the event that a trade transaction is cancelled on the same business day that it is reported.

Details

Field	Name	Type	Description												
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.												
Tracking Number	trackingID	int	Message Tracking number. Always 0 for Bruce.												
Timestamp	timestamp	timestamp	timestamp												
Client Timestamp	timestamp2	timestamp	TRF reported timestamp. Set to 0 for non-TRF trades. Only available on NLS+.												
Message Type	msgType	string	"o" = Trade Cancel/Error												
Originating Market Center Identifier	marketCenter	string	<p>Denotes the market system that generated the trade report and cancel/error message. The allowable values are:</p> <table border="1" data-bbox="840 1024 1362 1383"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>L</td><td>Nasdaq/FINRA TRF</td></tr> <tr> <td>2</td><td>Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago</td></tr> <tr> <td>B</td><td>Nasdaq Texas</td></tr> <tr> <td>X</td><td>PSX</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Value	Q	Nasdaq	L	Nasdaq/FINRA TRF	2	Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago	B	Nasdaq Texas	X	PSX
Code	Value														
Q	Nasdaq														
L	Nasdaq/FINRA TRF														
2	Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago														
B	Nasdaq Texas														
X	PSX														
Issue Symbol	symbol	string	Denotes the Nasdaq-assigned issue symbol of the security for which the trade report is being generated. For details on Nasdaq symbology, please refer to Appendix C.												

Security Class	securityClass	string	<p>Indicates the primary listing market for the issue. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>N</td><td>NYSE</td></tr> <tr> <td>A</td><td>NYSE American</td></tr> <tr> <td>P</td><td>NYSE Arca</td></tr> <tr> <td>M</td><td>NYSE Texas</td></tr> <tr> <td>Z</td><td>BATS</td></tr> <tr> <td>V</td><td>Investors' Exchange, LLC</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	M	NYSE Texas	Z	BATS	V	Investors' Exchange, LLC
Code	Value																		
Q	Nasdaq																		
N	NYSE																		
A	NYSE American																		
P	NYSE Arca																		
M	NYSE Texas																		
Z	BATS																		
V	Investors' Exchange, LLC																		
Original Trade Control Number	origControlNumber	string	<p>Indicates the source's internal control number associated with the given trade transaction.</p> <p>Please note that for Nasdaq, NASDAQ TEXAS, and PSX, the Trade Control Number is specific to the source system reflected in the Market Center ID field.</p>																
Original Trade Price	origPrice	double	Reported price for the original trade transaction. Refer to Data Types for field processing NLS Plus.																
Original Trade Size	origSize	double	Reported number of shares for original trade transaction.																
Original Sale Condition Modifier	origSaleCondition	string	Defines the sale condition modifiers as reported on the original trade transaction.																
Consolidated Volume	consolidatedVolume	double	<p>Reflects the volume for the Issue Symbol as reported on the consolidated market data feed at the time that the trade cancel/error message was generated. See Appendix A for calculation and dissemination information for this data element</p> <p>Only available on NLS+</p>																

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqTradeCancel", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "timestamp2", "type" : "long" }]</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7228617981499, "timestamp2": 7228617981499, "msgType": "o", "marketCenter": "Q", "symbol": "ZVZZT", "securityClass": "Q", "origControlNumber": "12345", "origPrice": 101.12, "origSize": 500, "origSaleCondition": "@4LB", "consolidatedVolume": 25542 }</pre>

```

"type" : [ "null", "long" ]
},
{
  "name" : "msgType",
  "type" : "string"
},
{
  "name" : "marketCenter",
  "type" : [ "null", "string" ]
},
{
  "name" : "symbol",
  "type" : "string"
},
{
  "name" : "securityClass",
  "type" : [ "null", "string" ]
},
{
  "name" : "origControlNumber",
  "type" : "string"
},
{
  "name" : "origPrice",
  "type" : "double"
},
{
  "name" : "origSize",
  "type" : "double"
},
{
  "name" : "origSaleCondition",
  "type" : [ "null", "string" ]
},
{
  "name" : "consolidatedVolume",
  "type" : [ "null", "double" ]
},
],
"version" : "1"
}

```

Trade Correction

The following message is used in the event that a Nasdaq trade transaction is corrected on the same business day that it is reported.

This message is not available on Bruce. Bruce Supports Cancels only.

Details

Field	Name	Type	Description
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Message Type	msgType	string	K = IPO Quoting Period Update Message
Tracking Number	trackingID	Int	Message Tracking Number
Time Stamp	timestamp	timestamp	Timestamp
Client Timestamp	timestamp2	timestamp	TRF reported timestamp. Set to 0 for non-TRF trades. Only available on NLS+.
Message Type	msgType	string	"b" = Trade Correction
Market Center Identifier	Center		Denotes the Nasdaq market system that generated the trade report and cancel/error message. The allowable values are:

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Issue Symbol	symbol	string	<p>Denotes the Nasdaq-assigned issue symbol of the security for which the trade report is being generated. For details on Nasdaq symbology, please refer to Appendix C.</p>																
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V	Investors' Exchange, LLC																		
Original Trade Control Number	origControlNumber	string	<p>Indicates the source's internal control number associated with the given trade transaction.</p> <p>Please note that the Trade Control Number is specific to the source system reflected in the Market Center ID field.</p>																
Original Trade Price	origPrice	double	Reported price for the original trade transaction. Refer to Data Types for field processing NLS Plus.																
Original Trade Size	origSize	double	Reported number of shares for original trade transaction.																
Original Sale Condition Modifier	origSaleCondition	string	Defines the sale condition modifiers as reported on the original trade transaction.																
Corrected Trade Control Number	correctedControlNumber	string	<p>Indicates the Nasdaq internal control number associated with the adjusted trade transaction.</p> <p>Please note that the Trade Control Number is specific to the Nasdaq host system reflected in the Originating Market Center ID field.</p>																
Corrected Trade Price	correctedPrice	double	Indicates the price for the corrected trade transaction. Refer to Data Types for field processing NLS Plus.																
Corrected Trade Size	correctedSize	double	Indicates the number of shares for the corrected trade transaction.																
Corrected Sale Condition Modifier	correctedSaleCondition	string	Denotes the sale condition modifiers associated with the corrected trade transaction.																
Consolidated Volume	consolidatedVolume	double	<p>Reflects the volume for the Issue Symbol as reported on the consolidated market data feed at the time that the trade cancel/error message was generated. See Appendix A for calculation and dissemination information for this data element</p> <p>Only available on NLS+.</p>																

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqTradeCorrection", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "timestamp2", "type" : ["null", "long"] }, { "name" : "msgType", "type" : "string" }, { "name" : "marketCenter", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : "string" }, { "name" : "origControlNumber", "type" : "string" }, { "name" : "origPrice", "type" : "double" }, { "name" : "origSize", "type" : "double" }, { "name" : "origSaleCondition", "type" : "string" }, { "name" : "correctedControlNumber", "type" : "string" }, { "name" : "correctedPrice", "type" : "double" }, { "name" : "correctedSize", "type" : "double" }, { "name" : "correctedSaleCondition", "type" : "string" } }, {</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7228617981499, "timestamp2": 7228617981499 "msgType": "b", "marketCenter": "Q", "symbol": "ZVZZT", "securityClass": "Q", "origControlNumber": "12345", "origPrice": 101.12, "origSize": 500, "origSaleCondition": "@4LB", "correctedControlNumber": "67890", "correctedPrice": 100.45, "correctedSize": 475, "correctedSaleCondition": "@FUD", "consolidatedVolume": 25542 }</pre>

```

  "name" : "consolidatedVolume",
  "type" : [ "null", "double" ]
},
"version" : "1"
}
  
```

Administrative Messages

Stock Trading Action

Nasdaq uses this administrative message to indicate the current trading status of a security to the trading community.

Please note that this message originates from the Nasdaq market center system.

Prior to the start of system hours, Nasdaq will send out a Trading Action spin. In the spin, Nasdaq will send out a Stock Trading Action message with the "T" (Trading Resumption) for all Nasdaq- and other exchange-listed securities that are eligible for trading at the start of the system hours. If a security is absent from the pre-opening Trading Action spin, firms should assume that the security is being treated as halted in the Nasdaq platform at the start of the system hours.

Please note that securities may be halted in the Nasdaq system for regulatory or operational reasons.

After the start of system hours, Nasdaq will use the Trading Action message to relay changes in trading status for an individual security. Messages will be sent when a stock is:

- Halted
- Paused*
- Released for quotation
- Released for trading

* The paused status will be disseminated for Nasdaq-listed securities only. Trading pauses on non-Nasdaq listed securities will be treated simply as a halt.

Bruce will only disseminate values "H" and "T".

Details

Field	Name	Type	Description										
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.										
Message Type	msgType	string	H = Trading Action										
Tracking Number	trackingID	Int	<ul style="list-style-type: none"> • Nasdaq internal tracking number. • Always 0 for Bruce. 										
Time Stamp	timestamp	timestamp	Timestamp										
Issue Symbol	symbol	string	Nasdaq-assigned indicator for issue for which the trading action message is being generated. For details on Nasdaq symbology, please refer to Appendix B.										
Security Class	securityClass	string	<p>Indicates the primary listing market for the issue. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>N</td><td>NYSE</td></tr> <tr> <td>A</td><td>NYSE American</td></tr> <tr> <td>P</td><td>NYSE Arca</td></tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca
Code	Value												
Q	Nasdaq												
N	NYSE												
A	NYSE American												
P	NYSE Arca												

			<table border="1"> <tr><td>M</td><td>NYSE Texas</td></tr> <tr><td>Z</td><td>BATS</td></tr> <tr><td>V</td><td>Investors' Exchange, LLC</td></tr> </table>	M	NYSE Texas	Z	BATS	V	Investors' Exchange, LLC				
M	NYSE Texas												
Z	BATS												
V	Investors' Exchange, LLC												
Not available on Bruce.													
Current Trading State	tradingState	string	<p>Reflects the current trading state for the issue. The allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr><td>H</td><td>Halt in effect (Cross all U.S. equity exchanges)</td></tr> <tr><td>P</td><td>Paused across all U.S. Equity markets / SROs (Nasdaq-listed securities only)</td></tr> <tr><td>Q</td><td>Quote only period in effect (Cross all U.S. equity changes)</td></tr> <tr><td>T</td><td>Trading on Nasdaq Market</td></tr> </tbody> </table>	Code	Value	H	Halt in effect (Cross all U.S. equity exchanges)	P	Paused across all U.S. Equity markets / SROs (Nasdaq-listed securities only)	Q	Quote only period in effect (Cross all U.S. equity changes)	T	Trading on Nasdaq Market
Code	Value												
H	Halt in effect (Cross all U.S. equity exchanges)												
P	Paused across all U.S. Equity markets / SROs (Nasdaq-listed securities only)												
Q	Quote only period in effect (Cross all U.S. equity changes)												
T	Trading on Nasdaq Market												
Reason	reason	string	<p>Reflects the Market Ops or Market Watch code for the trading state change. Refer to Appendix C for current code list.</p> <p>Not available on Bruce.</p>										

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqTradingActionMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : ["null", "string"] }, { "name" : "tradingState", "type" : "string" }, { "name" : "reason", "type" : ["null", "string"] }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 238625218217, "msgType": "H", "symbol": "ZVZT", "securityClass": "Q", "tradingState": "T", "reason": "M1" }</pre>

--	--

Stock Directory

At the start of each trading day, Nasdaq disseminates stock directory messages for all active symbols in its market center system.

Market data vendors should process this message to populate the Financial Status Indicator (required display field) and the Market Category (recommended display field) for Nasdaq-listed issues.

Details

Field	Name	Type	Description																										
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.																										
Message Type	msgType	string	R = Stock Directory Message																										
Tracking Number	trackingID	Int	<ul style="list-style-type: none"> Nasdaq internal tracking number. Always 0 for Bruce. 																										
Time Stamp	timestamp	timestamp	Timestamp																										
Stock	symbol	string	Denotes the security symbol for the issue in the Nasdaq execution system.																										
Market Category	marketCategory	String	<p>Indicates Listing market or listing market tier for the issue:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>Q</td> <td>Nasdaq Global Select MarketSM</td> </tr> <tr> <td>G</td> <td>Nasdaq Global MarketSM</td> </tr> <tr> <td>S</td> <td>Nasdaq Capital Market[®]</td> </tr> <tr> <td colspan="2"><i>Non-Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>N</td> <td>New York Stock Exchange (NYSE)</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>M</td> <td>NYSE Texas</td> </tr> <tr> <td>Z</td> <td>BATS Z Exchange</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td><space></td> <td>Not available</td> </tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Definition	<i>Nasdaq-Listed Instruments</i>		Q	Nasdaq Global Select Market SM	G	Nasdaq Global Market SM	S	Nasdaq Capital Market [®]	<i>Non-Nasdaq-Listed Instruments</i>		N	New York Stock Exchange (NYSE)	A	NYSE American	P	NYSE Arca	M	NYSE Texas	Z	BATS Z Exchange	V	Investors' Exchange, LLC	<space>	Not available
Code	Definition																												
<i>Nasdaq-Listed Instruments</i>																													
Q	Nasdaq Global Select Market SM																												
G	Nasdaq Global Market SM																												
S	Nasdaq Capital Market [®]																												
<i>Non-Nasdaq-Listed Instruments</i>																													
N	New York Stock Exchange (NYSE)																												
A	NYSE American																												
P	NYSE Arca																												
M	NYSE Texas																												
Z	BATS Z Exchange																												
V	Investors' Exchange, LLC																												
<space>	Not available																												
Financial Status Indicator	fsi	String	<p>For Nasdaq-listed issues, this field indicates when a firm is not in compliance with Nasdaq continued listing requirements.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>D</td> <td>Deficient</td> </tr> <tr> <td>E</td> <td>Delinquent</td> </tr> <tr> <td>Q</td> <td>Bankrupt</td> </tr> <tr> <td>S</td> <td>Suspended</td> </tr> <tr> <td>G</td> <td>Deficient and Bankrupt</td> </tr> <tr> <td>H</td> <td>Deficient and Delinquent</td> </tr> </tbody> </table>	Code	Definition	<i>Nasdaq-Listed Instruments</i>		D	Deficient	E	Delinquent	Q	Bankrupt	S	Suspended	G	Deficient and Bankrupt	H	Deficient and Delinquent										
Code	Definition																												
<i>Nasdaq-Listed Instruments</i>																													
D	Deficient																												
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H	Deficient and Delinquent																												

			<table border="1"> <tr><td>J</td><td>Delinquent and Bankrupt</td></tr> <tr><td>K</td><td>Deficient, Delinquent and Bankrupt</td></tr> <tr><td>C</td><td>Creations and/or Redemptions Suspended for Exchange Traded Product</td></tr> <tr><td>N</td><td>Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt</td></tr> <tr><td><space></td><td>Company is in compliance, if Nasdaq-listed issue</td></tr> </table>	J	Delinquent and Bankrupt	K	Deficient, Delinquent and Bankrupt	C	Creations and/or Redemptions Suspended for Exchange Traded Product	N	Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt	<space>	Company is in compliance, if Nasdaq-listed issue	
J	Delinquent and Bankrupt													
K	Deficient, Delinquent and Bankrupt													
C	Creations and/or Redemptions Suspended for Exchange Traded Product													
N	Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt													
<space>	Company is in compliance, if Nasdaq-listed issue													
			Not available on Bruce.											
Round Lot Size	roundLotSize	int	Denotes the number of shares that represent a round lot for the issue											
Round Lots Only	roundLotOnly	String	<p>Indicates if Nasdaq system limits order entry for issue:</p> <table border="1"> <thead> <tr><th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr><td>Y</td><td>Nasdaq system only accepts round lots orders for this security.</td></tr> <tr><td>N</td><td>Nasdaq system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.</td></tr> <tr><td><space></td><td>Not available</td></tr> </tbody> </table>	Code	Definition	Y	Nasdaq system only accepts round lots orders for this security.	N	Nasdaq system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.	<space>	Not available			
Code	Definition													
Y	Nasdaq system only accepts round lots orders for this security.													
N	Nasdaq system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.													
<space>	Not available													
Issue Classification	issueClass	String	<p>Identifies the security class for the issue as assigned by Nasdaq. See Appendix for allowable values.</p> <p>Not available on Bruce.</p>											
Issue Sub-Type	issueSubtype	string	<p>Identifies the security sub-type for the issue as assigned by Nasdaq. See Appendix for allowable values.</p> <p>Not available on Bruce.</p>											
Authenticity	authenticity	string	<p>Denotes if an issue or quoting participant record is set-up in Nasdaq systems in a live/production, test, or demo state. Please note that firms should only show live issues and quoting participants on public quotation displays.</p> <table border="1"> <thead> <tr><th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr><td>P</td><td>Live/Production</td></tr> <tr><td>T</td><td>Test</td></tr> </tbody> </table>	Code	Definition	P	Live/Production	T	Test					
Code	Definition													
P	Live/Production													
T	Test													
Short Sale Threshold Indicator	shortThreshold	string	<p>Indicates if a security is subject to mandatory close-out of short sales under SEC Rule 203(b)(3).</p> <table border="1"> <thead> <tr><th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr><td>Y</td><td>Issue is restricted under SEC Rule 203(b)(3)</td></tr> <tr><td>N</td><td>Issue is not restricted</td></tr> </tbody> </table>	Code	Definition	Y	Issue is restricted under SEC Rule 203(b)(3)	N	Issue is not restricted					
Code	Definition													
Y	Issue is restricted under SEC Rule 203(b)(3)													
N	Issue is not restricted													

			<table border="1"> <tr> <td><space></td><td>Threshold Indicator not available</td></tr> </table>	<space>	Threshold Indicator not available										
<space>	Threshold Indicator not available														
Not available on Bruce.															
IPO Flag	ipo	string	<p>Indicates if the Nasdaq security is set up for IPO release. This field is intended to help Nasdaq market participant firms comply with FINRA Rule 5131(b).</p> <table border="1"> <thead> <tr> <th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td></tr> <tr> <td>Y</td><td>Nasdaq listed instrument is set up as a new IPO security</td></tr> <tr> <td>N</td><td>Nasdaq listed instrument is not set up as a new IPO security</td></tr> <tr> <td colspan="2"><i>Non-Nasdaq-Listed Instruments</i></td></tr> <tr> <td><space></td><td>Not available</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Definition	<i>Nasdaq-Listed Instruments</i>		Y	Nasdaq listed instrument is set up as a new IPO security	N	Nasdaq listed instrument is not set up as a new IPO security	<i>Non-Nasdaq-Listed Instruments</i>		<space>	Not available
Code	Definition														
<i>Nasdaq-Listed Instruments</i>															
Y	Nasdaq listed instrument is set up as a new IPO security														
N	Nasdaq listed instrument is not set up as a new IPO security														
<i>Non-Nasdaq-Listed Instruments</i>															
<space>	Not available														
Not available on Bruce.															
LULD Reference Price Tier	luldTier	String	<p>Indicates which Limit Up / Limit Down price band calculation parameter is to be used for the instrument. Refer to LULD Rule for details.</p> <table border="1"> <thead> <tr> <th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr> <td>1</td><td>Tier 1 NMS Stocks and select ETPs</td></tr> <tr> <td>2</td><td>Tier 2 NMS Stocks</td></tr> <tr> <td><space></td><td>Not applicable</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Definition	1	Tier 1 NMS Stocks and select ETPs	2	Tier 2 NMS Stocks	<space>	Not applicable				
Code	Definition														
1	Tier 1 NMS Stocks and select ETPs														
2	Tier 2 NMS Stocks														
<space>	Not applicable														
Not available on Bruce.															
ETP Flag	etf	String	<p>Indicates whether the security is an exchange traded product (ETP):</p> <table border="1"> <thead> <tr> <th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr> <td>Y</td><td>Instrument is an ETP</td></tr> <tr> <td>N</td><td>Instrument is not an ETP</td></tr> <tr> <td><space></td><td>Not available</td></tr> </tbody> </table> <p>Not available on Bruce.</p>	Code	Definition	Y	Instrument is an ETP	N	Instrument is not an ETP	<space>	Not available				
Code	Definition														
Y	Instrument is an ETP														
N	Instrument is not an ETP														
<space>	Not available														
Not available on Bruce.															
ETP Leverage Factor	etfFactor	Int	<p>Tracks the integral relationship of the ETP to the underlying index. Example: If the underlying Index increases by a value of 1 and the ETP's Leverage factor is 3, indicates the ETF will increase/decrease (see Inverse) by 3.</p> <p>Leverage Factor is rounded to the nearest integer below, e.g. leverage factor 1 would represent leverage factors of 1 to 1.99.</p> <p>This field is used for LULD Tier I price band calculation purposes.</p>												

			<p>ETP Leverage Factor currently not supported for Non-Nasdaq listed ETP's.</p> <p>Not available on Bruce.</p>						
Inverse Indicator	inverseETF	string	<p>Indicates the directional relationship between the ETP and underlying index.</p> <table border="1" data-bbox="910 445 1498 593"> <thead> <tr> <th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr> <td>Y</td><td>ETP is an Inverse ETP</td></tr> <tr> <td>N</td><td>ETP is not an Inverse ETP</td></tr> </tbody> </table> <p>Example: An ETP Leverage Factor of 3 and an Inverse value of 'Y' indicates the ETP will decrease by a value of 3.</p> <p>Not available on Bruce.</p>	Code	Definition	Y	ETP is an Inverse ETP	N	ETP is not an Inverse ETP
Code	Definition								
Y	ETP is an Inverse ETP								
N	ETP is not an Inverse ETP								
Bloomberg ID	compositelD	string	<p>The composite ID that Bloomberg has assigned to the security.</p> <p>Only available on NLS+</p>						

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqDirectoryMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "marketCategory", "type" : "string" }, { "name" : "fsi", "type" : ["null", "string"] }, { "name" : "roundLotSize", "type" : "int" }, { "name" : "roundLotOnly", "type" : "string" }]</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217, "msgType": "R", "symbol": "ZVZT", "marketCategory": "Q", "fsi": "N", "roundLotSize": 250, "roundLotOnly": "N", "issueClass": "L", "issueSubtype": "MF", "authenticity": "T", "shortThreshold": "N", "ipo": "N", "luldTier": "1", "etf": "Y", "etfFactor": 2, "inverseETF": "N", "compositelD": "BBG123BLYYV2" }</pre>

```
"type" : [ "null", "string" ]
},
{
  "name" : "issueClass",
  "type" : [ "null", "string" ]
},
{
  "name" : "issueSubtype",
  "type" : [ "null", "string" ]
},
{
  "name" : "authenticity",
  "type" : "string"
},
{
  "name" : "shortThreshold",
  "type" : [ "null", "string" ]
},
{
  "name" : "ipo",
  "type" : [ "null", "string" ]
},
{
  "name" : "luldTier",
  "type" : [ "null", "string" ]
},
{
  "name" : "etf",
  "type" : [ "null", "string" ]
},
{
  "name" : "etfFactor",
  "type" : [ "null", "int" ]
},
{
  "name" : "inverseETF",
  "type" : [ "null", "string" ]
},
{
  "name" : "compositelId",
  "type" : [ "null", "string" ]
},
],
"version" : "1"
}
```

Adjusted Closing Price

At the start of each trading day, Nasdaq disseminates the adjusted closing price for all active symbols in the Nasdaq system.

For Nasdaq-listed securities the Nasdaq Official Closing Price will be used to calculate the adjusted close. For non-Nasdaq securities, the consolidated close will be used to calculate adjusted close.

Adjusted Closing Price message is not included on NASDAQ TEXAS, PSX, or Bruce Last Sale Products

Details

Field	Name	Type	Description
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Tracking Number	trackingID	Int	Message Tracking number

Timestamp	timestamp	timestamp	Timestamp																
Message Type	msgType	string	g = Adjusted Closing Price																
Issue Symbol	symbol	string	Nasdaq-assigned indicator for issue for which the short sale restriction indicator message is being generated. For details on Nasdaq symbology, please refer to Appendix C.																
Security Class	securityClass	string	<p>Indicates the primary listing market for the issue. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq</td> </tr> <tr> <td>N</td> <td>NYSE</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>M</td> <td>NYSE TEXAS</td> </tr> <tr> <td>Z</td> <td>BAYS</td> </tr> <tr> <td>V</td> <td>Investors' Exchange</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	M	NYSE TEXAS	Z	BAYS	V	Investors' Exchange
Code	Value																		
Q	Nasdaq																		
N	NYSE																		
A	NYSE American																		
P	NYSE Arca																		
M	NYSE TEXAS																		
Z	BAYS																		
V	Investors' Exchange																		
Adjusted Closing Price	adjClosingPrice	double	The previous trading day's official closing price adjusted for any applicable corporate actions. If there were no corporate actions for a security, the previous day's official close will be disseminated.																

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqAdjClosingPrice", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : "string" }, { "name" : "adjClosingPrice", "type" : "double" }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217, "msgType": "g", "symbol": "ZVZT", "securityClass": "Q", "adjClosingPrice": 102.09 }</pre>

}	
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End of Day Trade Summary

At the close of each trading day, Nasdaq will disseminate the following end of day trade summary messages for all active Nasdaq- and non-Nasdaq-listed securities. Nasdaq disseminates this message to ensure that NLS Plus subscribers have the correct daily volume information for all issues.

End of Day Trade Summary is only included on Nasdaq Last Sale Plus.

Details

Field	Name	Type	Description																
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.																
Tracking Number	trackingID	Int	Message Tracking number																
Timestamp	timestamp	timestamp	Timestamp																
Message Type	msgType	string	p = End of Day Trade Summary																
Issue Symbol	symbol	string	Nasdaq-assigned indicator for issue for which the short sale restriction indicator message is being generated. For details on Nasdaq symbology, please refer to Appendix C.																
Market Category	securityClass	string	<p>Denotes the listing market for the issue. The allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>N</td><td>NYSE</td></tr> <tr> <td>A</td><td>NYSE American</td></tr> <tr> <td>P</td><td>NYSE Arca</td></tr> <tr> <td>M</td><td>NYSE Texas</td></tr> <tr> <td>Z</td><td>BATS</td></tr> <tr> <td>V</td><td>Investors' Exchange, LLC</td></tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	M	NYSE Texas	Z	BATS	V	Investors' Exchange, LLC
Code	Value																		
Q	Nasdaq																		
N	NYSE																		
A	NYSE American																		
P	NYSE Arca																		
M	NYSE Texas																		
Z	BATS																		
V	Investors' Exchange, LLC																		
Consolidated High Price	consHigh	double	The highest price of any high/low eligible transaction on Tapes A, B or C received on the trading day.																
Consolidated Low Price	consLow	double	The lowest price of any high/low eligible transaction on Tapes A, B or C received on the trading day.																
Consolidated Closing Price	consClose	double	The final last sale eligible transaction on Tapes A, B or C received on the trading day.																
Consolidated Volume	consolidatedVolume	double	Reflects the total volume for the issue reported at the consolidated market level.																
Consolidated Open Price	consOpen	double	The first last sale eligible transactions received on the Trading day for Tapes A, B or C.																

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqEndOfDayTradeSummary", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : "string" }, { "name" : "consHigh", "type" : "double" }, { "name" : "consLow", "type" : "double" }, { "name" : "consClose", "type" : "double" }, { "name" : "consolidatedVolume", "type" : "double" }, { "name" : "consOpen", "type" : "double" }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217, "msgType": "J", "symbol": "ZVZT", "securityClass": "consHigh": 103.11, "consLow": 102.89, "consClose": 103.04, "consolidatedVolume": 4527985.0, "consOpen": 103.87 }</pre>

Regulation SHO Short Sale Price Test Restricted Indicator

In November 2010, the Securities and Exchange Commission (SEC) implemented changes to Rule 201 of the Regulation SHO (Reg SHO). For details, please refer to SEC Release Number 34-61595. In association with the Reg SHO rule change, Nasdaq introduced the following Reg SHO Short Sale Price Test Restricted Indicator message format.

For Nasdaq-listed issues, Nasdaq supports a full pre-opening spin of Reg SHO Short Sale Price Test Restricted Indicator messages indicating the Rule 201 status for all active issues. Nasdaq also sends the Reg SHO Short Sale Price Test Restricted Indicator message in the event of an intraday status change.

For other exchange-listed issues, Nasdaq relays the Reg SHO Short Sale Price Test Restricted Indicator message when it receives an update from the primary listing exchange.

Nasdaq processes orders based on the most Reg SHO Restriction status value.

Details

Field	Name	Type	Description								
SOUP Sequence	soupSequence	long	Auto-incrementing message sequence number.								
Message Type	msgType	string	Y = Short Sale Restriction Indicator								
Tracking Number	trackingID	Int	<ul style="list-style-type: none"> Nasdaq internal tracking number. Always 0 for Bruce. 								
Time Stamp	timestamp	timestamp	Timestamp								
Issue Symbol	symbol	string	Nasdaq-assigned indicator for issue for which the short sale restriction indicator message is being generated. For details on Nasdaq symbology, please refer to Appendix B.								
Reg SHO Action	regSHOAction	string	<p>Denotes the Reg SHO Short Sale Price Test Restriction status for the issue at the time of the message dissemination. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Definition</th></tr> </thead> <tbody> <tr> <td>0</td><td>No price test in place</td></tr> <tr> <td>1</td><td>Reg SHO Short Sale Price Test Restriction in effect due to an intra-day price drop in security</td></tr> <tr> <td>2</td><td>Reg SHO Short Sale Price Test Restriction remains in effect</td></tr> </tbody> </table>	Code	Definition	0	No price test in place	1	Reg SHO Short Sale Price Test Restriction in effect due to an intra-day price drop in security	2	Reg SHO Short Sale Price Test Restriction remains in effect
Code	Definition										
0	No price test in place										
1	Reg SHO Short Sale Price Test Restriction in effect due to an intra-day price drop in security										
2	Reg SHO Short Sale Price Test Restriction remains in effect										

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqRegSHORestrictionMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }]</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217, "msgType": "Y", "symbol": "ZVZZT", "regSHOAction": "1" }</pre>

<pre> " type" : "string" }, { "name" : "regSHOAction", "type" : "string" }], "version" : "1" } </pre>	
--	--

Market-Wide Circuit Breaker (MWCB) Message – Decline Level

Informs data recipients what the daily MWCB breach points are set to for the current trading day.

MWCB Decline message is not included on Bruce Last Sale.

Details

Field	Name	Type	Description
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Message Type	msgType	string	V = Market wide circuit breaker Decline Level Message
Tracking Number	trackingID	Int	• Nasdaq internal tracking number
Time Stamp	timestamp	timestamp	Timestamp
Level 1	level1	double	Denotes the MWCB Level 1 Value.
Level 2	level2	double	Denotes the MWCB Level 2 Value.
Level 3	level3	double	Denotes the MWCB Level 3 Value.

Schema	Sample
<pre> { "type" : "record", "name" : "SeqMWCBDeclineMessage", "namespace" : "com.nasdaq.datalink.streaming.bbo", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "level1", "type" : "double" }, { "name" : "level2", "type" : "double" } } </pre>	<pre> { "SoupSequence": 123, "msgType": "V", "trackingID": 0, "timestamp": 7238625218217, "level1": 5998.77474873, "level2": 4225.6737573, "level3": 3567.35673 } </pre>

```

  "name" : "level3",
  "type" : "double"
},
"version" : "1"
}
  
```

Market-Wide Circuit Breaker (MWCB) Message – Status

Informs data recipients when a MWCB has breached one of the established levels.

MWCB Status is not available on Bruce Last Sale.

Details

Field	Name	Type	Description
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Message Type	msgType	string	W = Market-Wide Circuit Breaker Status message
Tracking Number	trackingID	Int	• Nasdaq internal tracking number
Time Stamp	timestamp	timestamp	Timestamp
Breached Level	breachlevel	string	<p>Denotes the MWCB Level that was breached.</p> <p>“1” = Level 1 “2” = Level 2 “3” = Level 3</p>

Schema	Sample
<pre> { "type" : "record", "name" : "SeqMWCBStatusMessage", "namespace" : "com.nasdaq.datalink.streaming.bbo", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "breachLevel", "type" : "string" }], "version" : "1" } </pre>	<pre> { "SoupSequence": 123, "msgType": "W", "trackingID": 0, "timestamp": 7238625218217, "breachLevel": "1" } </pre>

Operational Halt

The Exchange uses this message to indicate the current Operational Status of a security to the trading community. An Operational Halt means that there has been an interruption of service on the identified security impacting only the designated Market Center. These Halts differ from the “Stock Trading Action” message types since an Operational Halt is specific to the exchange for which it is declared, and does not interrupt the ability of the trading community to trade the identified instrument on any other marketplace.

Nasdaq uses this administrative message to indicate the current trading status of the three market centers operated by Nasdaq.

Operational Halt message is not included on Bruce BBO.

Details

Field	Name	Type	Description	
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.	
Message Type	msgType		h = Operational Halt	
Tracking Number	trackingID	Int	• Nasdaq internal tracking number	
Time Stamp	timestamp	timestamp	Timestamp	
Stock	symbol	String	Denotes the security symbol for the issue in the Nasdaq execution system	
Market Code	marketCode	String	Code	Value
Q	Nasdaq			
B	NASDAQ TEXAS			
X	PSX			
Operational Halt Action	action	String	Code	Value
H	Operationally Halted on the identified Market			
T	Operational Halt has been lifted and Trading resumed			

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqOperationalHaltMessage", "namespace" : "com.nasdaq.datalink.streaming.bbo", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "symbol", "type" : "string" }, { "name" : "marketCode", "type" : "string" }]</pre>	<pre>{ "SoupSequence": 123, "msgType": "h", "trackingID": 0, "timestamp": 7238625218217, "symbol": "ZVZZT", "marketCode": "Q", "action": "H" }</pre>

```

  "type" : "string"
},
{
  "name" : "action",
  "type" : "string"
},
"version" : "1"
}
  
```

IPO Information:

Nasdaq will disseminate the following IPO messages from the UTP Level 1 feeds for Initial Public Offerings for all Nasdaq-listed securities. Please note that NLS Plus filters the General Administrative Messages from the UTP feeds for IPO specific text as the General Administrative Messages are free-form text and not used solely for IPO messages only.

IPO Information is only available on Nasdaq Last Sale Plus.

Details:

Field	Name	Type	Description																
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.																
Tracking Number	trackingID	Int	Message Tracking number																
Timestamp	timestamp	timestamp	Timestamp																
Message Type	msgType	string	i = IPO Message																
Issue Symbol	symbol	string	Nasdaq-assigned indicator for issue for which the trading action message is being generated. For details on Nasdaq symbology, please refer to Appendix C.																
Security Class	securityClass	string	<p>Indicates the primary listing market for the issue. Allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>Q</td><td>Nasdaq</td></tr> <tr> <td>N</td><td>NYSE</td></tr> <tr> <td>A</td><td>NYSE American</td></tr> <tr> <td>P</td><td>NYSE Arca</td></tr> <tr> <td>M</td><td>NYSE Texas</td></tr> <tr> <td>Z</td><td>BATS</td></tr> <tr> <td>V</td><td>Investors' Exchange, LLC</td></tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	M	NYSE Texas	Z	BATS	V	Investors' Exchange, LLC
Code	Value																		
Q	Nasdaq																		
N	NYSE																		
A	NYSE American																		
P	NYSE Arca																		
M	NYSE Texas																		
Z	BATS																		
V	Investors' Exchange, LLC																		

Reference For Net Change	refForNetChange	string	Reflects the current trading state for the issue. The allowable values are: <table border="1"> <thead> <tr> <th>Code</th><th>Value</th></tr> </thead> <tbody> <tr> <td>F</td><td>First Trade Price</td></tr> <tr> <td>W</td><td>Underwriter Price</td></tr> </tbody> </table>	Code	Value	F	First Trade Price	W	Underwriter Price
Code	Value								
F	First Trade Price								
W	Underwriter Price								
Reference Price	refPrice	double	Reference Price						

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqIPOMessage", "namespace" : "com.nasdaq.datalink.streaming.lastsale40", "fields" : [{ "name" : "SoupSequence", "type" : "long" }, { "name" : "trackingID", "type" : "int" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "securityClass", "type" : "string" }, { "name" : "refForNetChange", "type" : "string" }, { "name" : "refPrice", "type" : "double" }], "version" : "1" }</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217, "msgType": "I", "symbol": "ZVZZT", "securityClass": "Q", "refForNetChange": "F", "refPrice": 101.34 }</pre>

IPO Quoting Period Update:

Indicates the anticipated IPO quotation release time of a security.

IPO Quoting Period Update message is not included on NASDAQ TEXAS, PSX, or Bruce Last Sale Products.

Details:

Field	Name	Type	Description						
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.						
Tracking Number	trackingID	int	Message Tracking number						
Timestamp	timestamp	timestamp	Timestamp						
Message Type	msgType	string	"k" = IPO Quoting Period Update Message						
Stock	symbol	string	Denotes the security symbol for the issue in the Nasdaq execution system.						
IPO Quotation Release Time	releaseTime	int	<p>Denotes the IPO release time, in seconds since midnight, for quotation to the nearest second.</p> <p>NOTE: If the quotation period is being canceled/postponed, we should state that</p> <ol style="list-style-type: none"> 1. IPO Quotation Time will be set to 0 2. IPO Price will be set to 0 						
IPO Quotation Release Qualifier	releaseQualifier	string	<table border="1"> <thead> <tr> <th>Code</th><th>Description</th></tr> </thead> <tbody> <tr> <td>A</td><td>Anticipated quotation release time <i>This value would be used when Nasdaq Market Operations initially enters the IPO instrument for release.</i></td></tr> <tr> <td>C</td><td>IPO release canceled/postponed <i>This value would be used when Nasdaq Market Operations cancels or postpones the release of the IPO instrument.</i></td></tr> </tbody> </table>	Code	Description	A	Anticipated quotation release time <i>This value would be used when Nasdaq Market Operations initially enters the IPO instrument for release.</i>	C	IPO release canceled/postponed <i>This value would be used when Nasdaq Market Operations cancels or postpones the release of the IPO instrument.</i>
Code	Description								
A	Anticipated quotation release time <i>This value would be used when Nasdaq Market Operations initially enters the IPO instrument for release.</i>								
C	IPO release canceled/postponed <i>This value would be used when Nasdaq Market Operations cancels or postpones the release of the IPO instrument.</i>								
IPO Price	ipoPrice	double	<p>Denotes the IPO price to be used for intraday net change calculations.</p> <p>Prices are given in decimal format with 6 whole number places followed by 4 decimal digits. The whole number portion is padded on the left with spaces; the decimal portion is padded on the right with zeros. The decimal point is implied by position; it does not appear inside the price field.</p>						

Schema	Sample
<pre>{ "type" : "record", "name" : "SeqIPOQuotePeriodMessage",</pre>	<pre>{ "SoupSequence": 123, "trackingID": 0, "timestamp": 7238625218217,</pre>

```
  "namespace" :  
  "com.nasdaq.datalink.streaming.lastsale40",  
  "fields" : [ {  
    "name" : "SoupSequence",  
    "type" : "long"  
  }, {  
    "name" : "trackingID",  
    "type" : "int"  
  }, {  
    "name" : "timestamp",  
    "type" : "long"  
  }, {  
    "name" : "msgType",  
    "type" : "string"  
  }, {  
    "name" : "symbol",  
    "type" : "string"  
  }, {  
    "name" : "releaseTime",  
    "type" : "int"  
  }, {  
    "name" : "releaseQualifier",  
    "type" : "string"  
  }, {  
    "name" : "ipoPrice",  
    "type" : "double"  
  } ],  
  "version" : "1"  
}
```

```
  "msgType": "k",  
  "symbol": "ZVZZT",  
  "releaseTime": 36000, "releaseQualifier": "A",  
  "ipoPrice": 15.00  
}
```

Appendix A – Stock Symbol Convention

For Nasdaq-listed issues, Nasdaq currently restricts its symbol length to a maximum of 8 characters. For common stock issuances, Nasdaq, NASDAQ TEXAS and PSX will only assign root symbols of 1 to 4 characters in length with possible fifth and or sixth character denoting a suffix. In certain instances, a dot “.” delimiter may be applied to symbols after the root and between the suffix eg., XXXX.A. For subordinate securities, Nasdaq, NASDAQ TEXAS, and PSX will assign a 5 character symbol for which the last character relays information about the issue class or issue type. For the current list of fifth and or six character symbol suffixes, please refer to [Ticker Symbol Convention](#) page on the Nasdaq Trader website.

For NYSE-, NYSE American- and NYSE Arca-listed securities with subordinate issue types, please refer to [Ticker Symbol Convention](#) page on the Nasdaq Trader website.

Appendix B – Trading Action Reason Codes

For Nasdaq-listed issues, Nasdaq acts as the primary market and has the authority to institute a trading halt or trading pause in an issue due to news dissemination or regulatory reasons.

For CQS issues, Nasdaq, NASDAQ TEXAS and NASDAQ TEXAS abide by any regulatory trading halts and trading pauses instituted by the primary or listing market as appropriate.

For all issue types, Nasdaq, NASDAQ TEXAS and/or NASDAQ TEXAS may also halt trading for operational reasons. Nasdaq, NASDAQ TEXAS and/or NASDAQ TEXAS will send out a trading action message to inform its market participants when the trading status of an issue changes. For informational purposes, Nasdaq and NASDAQ TEXAS also attempt to provide the reason for each trading action update. For bandwidth efficiency reasons, Nasdaq, NASDAQ TEXAS and NASDAQ TEXAS use a 4-byte code for the reason on its outbound data feeds.

REASON CODES FOR TRADING HALT ACTIONS	
Code	Value
T1	Halt News Pending
T2	Halt News Disseminated
T5	Single Security Trading Pause In Affect
T6	Regulatory Halt — Extraordinary Market Activity
T8	Halt ETF
T12	Trading Halted; For Information Requested by Listing Market
H4	Halt Non-Compliance
H9	Halt Filings Not Current
H10	Halt SEC Trading Suspension
H11	Halt Regulatory Concern
O1	Operations Halt; Contact Market Operations
LUDP	Volatility Trading Pause
LUDS	Volatility Trading Pause – Straddle Condition
MWC1	Market Wide Circuit Breaker Halt – Level 1
MWC2	Market Wide Circuit Breaker Halt – Level 2
MWC3	Market Wide Circuit Breaker Halt – Level 3
MWCO	Market Wide Circuit Breaker Halt – Carry over from previous day
IPO1	IPO Issue Not Yet Trading
M1	Corporate Action

M2	Quotation Not Available
<space>	Reason Not Available

REASON CODES FOR QUOTATION/TRADING RESUMPTION ACTIONS

Code	Value
T3	News and Resumption Times
T7	Single Security Trading Pause / Quotation Only Period
R4	Qualifications Issues Reviewed/Resolved; Quotations/Trading to Resume
R9	Filing Requirements Satisfied/Resolved; Quotations/Trading To Resume
C3	Issuer News Not Forthcoming; Quotations/Trading To Resume
C4	Qualifications Halt ended; Maintenance Requirements Met; Resume
C9	Qualifications Halt Concluded; Filings Met; Quotes/Trades To Resume
C11	Trade Halt Concluded By Other Regulatory Auth.; Quotes/Trades Resume
MWCQ	Market Wide Circuit Breaker Resumption
R1	New Issue Available
R2	Issue Available
IPOQ	IPO Security Released for Quotation (Nasdaq Securities Only)
IPOE	IPO Security — Positioning Window Extension (Nasdaq Securities Only)
<space>	Reason Not Available

For the current list of regulatory halts, please refer to the [Trading Halts page](#) on the Nasdaq Trader website.

Appendix C - Issue Classification Values

Identifies the security class for the issue as assigned by Nasdaq

CODES FOR ISSUE CLASSIFICATION VALUES	
Code	Value
A	American Depository Share
B	Bond
C	Common Stock
F	Depository Receipt
I	144A
L	Limited Partnership
N	Notes
O	Ordinary Share
P	Preferred Stock
Q	Other Securities
R	Right
S	Shares of Beneficial Interest
T	Convertible Debenture
U	Unit
V	Units/Benif Int
W	Warrant

Appendix D - Issue Sub-Type Values

CODES FOR ISSUE CLASSIFICATION VALUES	
Code	Value
A	Preferred Trust Securities
AI	Alpha Index ETNs
B	Index Based Derivative
C	Common Shares
CB	Commodity Based Trust Shares
CF	Commodity Futures Trust Shares
CL	Commodity-Linked Securities
CM	Commodity Index Trust Shares
CO	Collateralized Mortgage Obligation
CT	Currency Trust Shares
CU	Commodity-Currency-Linked Securities
CW	Currency Warrants
D	Global Depository Shares
E	ETF-Portfolio Depositary Receipt
EG	Equity Gold Shares
EI	ETN-Equity Index-Linked Securities
EN	Exchange Traded Notes
EU	Equity Units
F	HOLDRS
FI	ETN-Fixed Income-Linked Securities
FL	ETN-Futures-Linked Securities
G	Global Shares
I	ETF-Index Fund Shares
IR	Interest Rate
IW	Index Warrant
IX	Index-Linked Exchangeable Notes
J	Corporate Backed Trust Security
L	Contingent Litigation Right
LL	Identifies securities of companies that are set up as a Limited Liability Company (LLC)
M	Equity-Based Derivative
MF	Managed Fund Shares
ML	ETN-Multi-Factor Index-Linked Securities
MT	Managed Trust Securities
N	NY Registry Shares
O	Open Ended Mutual Fund
P	Privately Held Security
PP	Poison Pill
PU	Partnership Units
Q	Closed-End Funds

R	Reg-S
RC	Commodity-Redeemable Commodity-Linked Securities
RF	ETN-Redeemable Futures-Linked Securities
RT	REIT
RU	Commodity-Redeemable Currency-Linked Securities
S	SEED
SC	Spot Rate Closing
SI	Spot Rate Intraday
T	Tracking Stock
TC	Trust Certificates
TU	Trust Units
U	Portal
V	Contingent Value Right
W	Trust Issued Receipts
WC	World Currency Option
X	Trust
Y	Other
Z	Not Applicable

Version Log:

NLS Plus Version 4.0	February 13, 2026
Nasdaq BX name changed to Nasdaq Texas	
NLS Plus Version 4.0	July 16, 2025
Bruce ATS made available on NDL. Addition of "null" values to certain fields to standardize schema across all feeds.	
NLS Plus Version 4.0	June 23, 2025
Added listing market center value "M" to reflect the addition of NYSE Texas as a listing market.	
NLS Plus Version 4.0	June 16, 2025
Released new version to accommodate for fractional share changes effective February 2026. All NextShares Messages removed.	
NLS Plus Version 3.0	May 17, 2021
Nasdaq enhanced message 5.8.5 End of Day Trade Summary message to now include the Consolidated High Price, Consolidated Low Price, Consolidated Closing Price, and add Consolidated Open Price to the end of the message.	
NLS Plus Version 3.0	May 17, 2021
Nasdaq enhanced non-nextshares trades with Long form trades messages exceeding the upper limit 4-byte.	
NLS Plus Version 3.0	July 14, 2022
Due to the launch of non-integer leverage factors, updated ETP Leverage Factor from section "Stock Directory" page 52.	
NLS Plus Version 3.0	Feb 20, 2024
Re-phrased the Data Type section to include the decimal format for Price fields.	
NLS Plus Version 3.0	May 28, 2024
In accordance with recent SEC rule change, per the Equity Trader Alert , Nasdaq will no longer be disseminating Sale Condition code "N" Next Day Settlement on respective trade feeds.	
NLS Plus Version 3.0	May 6, 2025
Added value "M" to listing markets to reflect the launch of NYSE Texas as a listing market beginning May 19, 2025.	
NLS Plus Version 3.0	May 15, 2025
Changed datatype of all int and long fields to double and removed NextShares and Long form messages.	