# Nasdaq Last Sale Plus 5.0

## Products Overview

This specification represents the schema for Nasdaq Last Sale Plus 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

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-V5 | Realtime |
| NLS+ | NLSPLUS-CTA-V5 | Realtime |
| NLS+ | NLSPLUS-CTA-V5-DELAYED | Delayed |
| NLS+ | NLSPLUS-UTP-V5-DELAYED | Delayed |

## Publisher

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.

Prices are represented as an 8-byte integer, supplied with an associated precision. Prices are unsigned. When converted to a decimal format, prices are in a fixed-point format, where the precision defines the number of decimal places. For example, a field flagged as Price (4) has an implied 4 decimal places. A field flagged as Price (6) has an implied six decimal places and is right padded with trailing zeroes to maintain the full six-decimal precision. Sizes are represented as an 8-byte integer, supplied with an associated precision. Sizes are unsigned. When converted to a decimal format, sizes are in a fixed-point format, where the precision defines the number of decimal places. For example, a field flagged as Size (6) has an implied 6 decimal places.

Timestamps reflect the system time at which the outbound message was generated. Nasdaq states time as the number of nanoseconds since Epoch 1/1/1970, 00:00:00 UTC and unsigned. All alphanumeric fields are left-justified, ASCII fields. Padding spaces appear on the right as necessary.

## 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. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Message Type | msgType | string | S = System Event |
| Event Code | event | string | NLS Plus events for which the message is being generated. Possible values: |

| 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) |

| Schema | Sample |
|---|---|
| { "type" : "record", "name" : "SeqSystemEventMessage", "namespace" : "com.nasdaq.datalink.streaming.nlsplus50", "fields" : [ { "name" : "SoupSequence", "type" : "long" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "event", "type" : "string" } ], "version" : "1" } | { "SoupSequence": 1, "timestamp": 7228617981499000, "msgType": "S", "event": "O" } |

## 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. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Client Timestamp | clientTimestamp | long | TRF reported timestamp. Set to 0 for non-TRF trades.<br><br>Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Message Type | msgType | string | “e” = Trade Report |

<table>
<tr><td>Originating Market Center Identifier</td><td>marketCenter</td><td>string</td><td>Denotes the Nasdaq market system that generated the trade report message. The allowable values are:<br><br><table><tr><th>Code</th><th>Value</th></tr><tr><td>Q</td><td>Nasdaq 4AM-8PM ET</td></tr><tr><td>q</td><td>Nasdaq 9PM-4AM ET session</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></table></td></tr>
<tr><td>Issue Symbol</td><td>symbol</td><td>string</td><td>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.</td></tr>
<tr><td>Trade Control Number</td><td>controlNumber</td><td>string</td><td>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.</td></tr>
<tr><td>Trade Price</td><td>price</td><td>long</td><td>The price associated with the trade transaction being reported. Refer to Data Types for field processing.</td></tr>
<tr><td>Trade Size</td><td>size</td><td>long</td><td>Indicates the reported number of shares on the trade transaction.</td></tr>
<tr><td>Sale Condition Modifier</td><td>saleCondition</td><td>string</td><td>Sale condition modifier consists of four levels as defined below.<br><br>Level 1</td></tr>
</table>

Used for Settlement Type information. Allowable values are:

| Code | Value |
|---|---|
| @ | Regular Settlement |
| C | Cash Settlement |
| N | Next Day Settlement |
| R | Seller Settlement |

**Level 2**

Used for SEC Regulation NMS Trade Through Exemption Codes. Allowable values are:

| 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 |

**Level 3**

Used for Extended Hours or Sold Codes. Allowable values are:

| 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 |

**Level 4**

Used for special sale condition codes. Please note that this field is case sensitive. Allowable values are:

| Code | Value |
|---|---|
| A | Acquisition |

| | | | |
|---|---|---|---|
| | | | B: Bunched<br>D: Distribution<br>H: Price Variation Transaction<br>M: Nasdaq Official Close Price (NOCP) |
| Consolidated Volume | consolidatedVolume | long | 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. |

| Schema | Sample |
| --- | --- |
| {<br>"type" : "record",<br>"name" : "SeqTradeReportLongFractional",<br>"namespace" :<br>"com.nasdaq.datalink.streaming.nlsplus50",<br>"fields" : [ {<br>"name" : "SoupSequence",<br>"type" : "long"<br>}, {<br>"name" : "timestamp",<br>"type" : "long"<br>}, {<br>"name" : "clientTimestamp",<br>"type" : "long"<br>}, {<br>"name" : "msgType",<br>"type" : "string"<br>}, {<br>"name" : "marketCenter",<br>"type" : "string"<br>}, {<br>"name" : "symbol",<br>"type" : "string"<br>}, {<br>"name" : "controlNumber",<br>"type" : "string"<br>}, {<br>"name" : "price",<br>"type" : "long"<br>}, {<br>"name" : "size",<br>"type" : "long"<br>}, {<br>"name" : "saleCondition",<br>"type" : "string"<br>}, {<br>"name" : "cosolidatedVolume",<br>"type" : "long"<br>} ],<br>"version" : "1"<br>} | {<br>"SoupSequence": 123,<br>“timestamp”: 7228617981499000,<br>“clientTimestamp”: 7228617981499000,<br>"msgType": "e",<br>"marketCenter": "Q",<br>"symbol": "ZVZZT",<br>"controlNumber": "12345",<br>"price": 101.12,<br>"size": 500,<br>"saleCondition": "@4LB",<br>"consolidatedVolume": 25542<br>} |

# 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. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Client Timestamp | clientTimestamp | long | TRF reported timestamp. Set to 0 for non-TRF trades.<br><br>Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Message Type | msgType | string | "o" = Trade Cancel/Error |
| Originating Market Center Identifier | marketCenter | string | Denotes the market system that generated the trade report and cancel/error message. The allowable values are:<br><br>**Code** / **Value**<br>Q – Nasdaq 4AM-9PM ET Session<br>q – Nasdaq 9PM-4AM ET Session<br>L – Nasdaq/FINRA TRF<br>2 – Nasdaq/FINRA Trade Reporting Facility (TRF) Chicago<br>B – Nasdaq Texas<br>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. |
| Original Trade Control Number | origControlNumber | string | Indicates the source's internal control number associated with the given trade transaction.<br><br>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. |
| 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 | 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 |

## Schema


```
{
 "type" : "record",
 "name" : "SeqTradeCancelLongFractional",
 "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
 "fields" : [ {
  "name" : "SoupSequence",
  "type" : "long"
 }, {
  "name" : "timestamp",
  "type" : "long"
 }, {
  "name" : "clientTimestamp",
  "type" : "long"
 }, {
  "name" : "msgType",
  "type" : "string"
 }, {
  "name" : "marketCenter",
  "type" : "string"
 }, {
  "name" : "symbol",
  "type" : "string"
 }, {
  "name" : "origControlNumber",
  "type" : "string"
 }, {
  "name" : "origPrice",
  "type" : "long"
 }, {
  "name" : "origSize",
  "type" : "long"
 }, {
  "name" : "origSaleCondition",
  "type" : "string"
 }, {
  "name" : "cosolidatedVolume",
  "type" : "long"
 } ],
 "version" : "1"
}
```


## Sample


```
{
"SoupSequence": 123,
“timestamp”: 7228617981499000,
“clientTimestamp”: 7228617981499000,
"msgType": "o",
"marketCenter": "Q",
"symbol": "ZVZZT",
"origControlNumber": "12345",
"origPrice": 101.12,
"origSize": 500,
"origSaleCondition": "@4LB",
"consolidatedVolume": 25542
}
```

# 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.

## Details

| Field | Name | Type | Description |
|---|---|---|---|
| SOUP Sequence | SoupSequence | long | Auto-incrementing message sequence number. |
| Message Type | msgType | string | K = IPO Quoting Period Update Message |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Client Timestamp | clientTimestamp | long | TRF reported timestamp. Set to 0 for non-TRF trades.<br>Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Message Type | msgType | string | "b" = Trade Correction |
| Originating Market Center Identifier | marketCenter | string | Denotes the Nasdaq market system that generated the trade report and cancel/error message. The allowable values are:<br><br>Code / Value<br>Q – Nasdaq 4AM-9PM ET Session<br>q – Nasdaq 9PM-4AM ET Session<br>L – FINRA/Nasdaq TRF<br>2 – FINRA/Nasdaq TRF 2 (Chicago)<br>B – NASDAQ TEXAS<br>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. |
| Original Trade Control Number | origControlNumber | string | Indicates the source's internal control number associated with the given trade transaction.<br><br>Please note that the Trade Control Number is specific to the source system reflected in the Market Center ID field. |
| Original Trade Price | origPrice | long | Reported price for the original trade transaction. Refer to Data Types for field processing NLS Plus. |
| Original Trade Size | origSize | long | 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 | Indicates the Nasdaq internal control number associated with the adjusted trade transaction. |

| | | | |
|---|---|---|---|
| | | | Please note that the Trade Control Number is specific to the Nasdaq host system reflected in the Originating Market Center ID field. |
| Corrected Trade Price | correctedPrice | long | Indicates the price for the corrected trade transaction. Refer to Data Types for field processing NLS Plus. |
| Corrected Trade Size | correctedSize | long | 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 | 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 |

## Schema


```
{
  "type" : "record",
  "name" : "SeqTradeCorrectionLongFractional",
  "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
  "fields" : [ {
    "name" : "SoupSequence",
    "type" : "long"
  }, {
    "name" : "timestamp",
    "type" : "long"
  }, {
    "name" : "clientTimestamp",
    "type" : "long"
  }, {
    "name" : "msgType",
    "type" : "string"
  }, {
    "name" : "marketCenter",
    "type" : "string"
  }, {
    "name" : "symbol",
    "type" : "string"
  }, {
    "name" : "origControlNumber",
    "type" : "string"
  }, {
    "name" : "origPrice",
    "type" : "long"
  }, {
    "name" : "origSize",
    "type" : "long"
  }, {
    "name" : "origSaleCondition",
    "type" : "string"
```


## Sample


```
{
"SoupSequence": 123,
“timestamp”: 7228617981499000,
“clientTimestamp”: 7228617981499000,
"msgType": "b",
“marketCenter”: “Q”,
"symbol": "ZVZZT",
"origControlNumber": "12345",
"origPrice": 101.12,
"origSize": 500,
"origSaleCondition": "@4LB",
"correctedControlNumber": "67890",
"correctedPrice": 100.45,
"correctedSize": 475,
"correctedSaleCondition": "@FUD",
"consolidatedVolume": 25542
}
```

```
      }, {
        "name" : "correctedControlNumber",
        "type" : "string"
      }, {
        "name" : "correctedPrice",
        "type" : "long"
      }, {
        "name" : "correctedSize",
        "type" : "long"
      }, {
        "name" : "correctedSaleCondition",
        "type" : "string"
      }, {
        "name" : "consolidatedVolume",
        "type" : "long"
      } ],
      "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 |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| 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. |
| Current Trading State | tradingState | string | Reflects the current trading state for the issue. The allowable values are:<br>**Code** / **Value**<br>H – Halt in effect (Cross all U.S. equity exchanges)<br>P – Paused across all U.S. Equity markets / SROs (Nasdaq-listed securities only)<br>Q – Quote only period in effect (Cross all U.S. equity changes)<br>T – Trading on Nasdaq Market |
| Reason | reason | string | Reflects the Market Ops or Market Watch code for the trading state change. Refer to Appendix C for current code list. |

## Schema

```
{
  "type" : "record",
  "name" : "SeqTradingStateMessage",
  "namespace" : "com.nasdaq.datalink.streaming.nlsplus50",
  "fields" : [ {
    "name" : "SoupSequence",
    "type" : "long"
  }, {
    "name" : "timestamp",
    "type" : "long"
  }, {
    "name" : "msgType",
    "type" : "string"
  }, {
    "name" : "symbol",
    "type" : "string"
  }, {
    "name" : "tradingState",
    "type" : "string"
  }, {
    "name" : "reason",
    "type" : "string"
  } ],
  "version" : "1"
}
```

## Sample

```
{
"SoupSequence": 123,
“timestamp”: 238625218217000,
"msgType": "H",
"symbol": "ZVZZT",
"tradingState": "T",
"reason": "M1"
}
```

# 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

<table>
<tr><th>Field</th><th>Name</th><th>Type</th><th>Description</th></tr>
<tr><td>SOUP Sequence</td><td>SoupSequence</td><td>long</td><td>Auto-incrementing message sequence number.</td></tr>
<tr><td>Message Type</td><td>msgType</td><td>string</td><td>R = Stock Directory Message</td></tr>
<tr><td>Timestamp</td><td>timestamp</td><td>long</td><td>Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC</td></tr>
<tr><td>Stock</td><td>symbol</td><td>string</td><td>Denotes the security symbol for the issue in the Nasdaq execution system.</td></tr>
<tr><td>Market Category</td><td>marketCategory</td><td>String</td><td>Indicates Listing market or listing market tier for the issue:
<table>
<tr><th>Code</th><th>Definition</th></tr>
<tr><td colspan="2">Nasdaq-Listed Instruments</td></tr>
<tr><td>Q</td><td>Nasdaq Global Select Market℠</td></tr>
<tr><td>G</td><td>Nasdaq Global Market℠</td></tr>
<tr><td>S</td><td>Nasdaq Capital Market®</td></tr>
<tr><td colspan="2">Non-Nasdaq-Listed Instruments</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>F</td><td>Texas Exchange</td></tr>
<tr><td><space></td><td>Not available</td></tr>
</table></td></tr>
<tr><td>Financial Status Indicator</td><td>fsi</td><td>String</td><td>For Nasdaq-listed issues, this field indicates when a firm is not in compliance with Nasdaq continued listing requirements.
<table>
<tr><th>Code</th><th>Definition</th></tr>
<tr><td colspan="2">Nasdaq-Listed Instruments</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>
<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>
</table></td></tr>
</table>

<table>
<tr><td></td><td></td><td></td><td>
<table>
<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>
</td></tr>
<tr><td>Round Lot Size</td><td>roundLotSize</td><td>int</td><td>Denotes the number of shares that represent a round lot for the issue</td></tr>
<tr><td>Round Lots Only</td><td>roundLotOnly</td><td>String</td><td>Indicates if Nasdaq system limits order entry for issue:
<table>
<tr><th>Code</th><th>Definition</th></tr>
<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>
</table>
</td></tr>
<tr><td>Issue Classification</td><td>issueClass</td><td>String</td><td>Identifies the security class for the issue as assigned by Nasdaq. See Appendix for allowable values.</td></tr>
<tr><td>Issue Sub-Type</td><td>issueSubtype</td><td>string</td><td>Identifies the security sub-type for the issue as assigned by Nasdaq. See Appendix for allowable values.</td></tr>
<tr><td>Authenticity</td><td>authenticity</td><td>string</td><td>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.
<table>
<tr><th>Code</th><th>Definition</th></tr>
<tr><td>P</td><td>Live/Production</td></tr>
<tr><td>T</td><td>Test</td></tr>
</table>
</td></tr>
<tr><td>Short Sale Threshold Indicator</td><td>shortThreshold</td><td>string</td><td>Indicates if a security is subject to mandatory close-out of short sales under SEC Rule 203(b)(3).
<table>
<tr><th>Code</th><th>Definition</th></tr>
<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>
<tr><td><space></td><td>Threshold Indicator not available</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><td>IPO Flag</td><td>ipo</td><td>string</td><td>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).<br><br><table><tr><th>Code</th><th>Definition</th></tr><tr><td colspan="2">Nasdaq-Listed Instruments</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>Z</td><td>Nasdaq listed instrument is a non-IPO new issue</td></tr><tr><td colspan="2">Non-Nasdaq-Listed Instruments</td></tr><tr><td><space></td><td>Not available</td></tr></table></td></tr>
<tr><td>LULD Reference Price Tier</td><td>luldTier</td><td>String</td><td>Indicates which Limit Up / Limit Down price band calculation parameter is to be used for the instrument. Refer to LULD Rule for details.<br><br><table><tr><th>Code</th><th>Definition</th></tr><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></table></td></tr>
<tr><td>ETP Flag</td><td>etf</td><td>String</td><td>Indicates whether the security is an exchange traded product (ETP):<br><br><table><tr><th>Code</th><th>Definition</th></tr><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></table></td></tr>
<tr><td>ETP Leverage Factor</td><td>etfFactor</td><td>Int</td><td>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.<br><br>Leverage Factor is rounded to the nearest integer below, e.g. leverage factor 1 would represent leverage factors of 1 to 1.99.<br><br>This field is used for LULD Tier I price band calculation purposes.</td></tr>
</table>

| | | | |
|---|---|---|---|
| | | | ETP Leverage Factor currently not supported for Non-Nasdaq listed ETP's.<br><br>**Not available on Bruce.** |
| Inverse Indicator | inverseETF | string | Indicates the directional relationship between the ETP and underlying index.<br><br>**Code** / **Definition**<br>Y – ETP is an Inverse ETP<br>N – ETP is not an Inverse ETP<br><br>Example: An ETP Leverage Factor of 3 and an Inverse value of 'Y' indicates the ETP will decrease by a value of 3.<br><br>**Not available on Bruce.** |
| Bloomberg ID | compositeId | string | The composite ID that Bloomberg has assigned to the security.<br><br>**Only available on NLS+** |

## Schema


```
{
 "type" : "record",
 "name" : "SeqDirectoryMessage",
 "namespace" : "com.nasdaq.datalink.streaming.nlsplus50",
 "fields" : [ {
  "name" : "SoupSequence",
  "type" : "long"
 }, {
  "name" : "timestamp",
  "type" : "long"
 }, {
  "name" : "msgType",
  "type" : "string"
 }, {
  "name" : "symbol",
  "type" : "string"
 }, {
  "name" : "marketClass",
  "type" : "string"
 }, {
  "name" : "fsi",
  "type" : "string"
 }, {
  "name" : "roundLotSize",
  "type" : [ "null", "int" ]
 }, {
  "name" : "roundLotOnly",
  "type" : [ "null", "string" ]
 }, {
```


## Sample


```
{
"SoupSequence": 123,
“timestamp”: 7238625218217000,
"msgType": "R",
"symbol": "ZVZZT",
"marketClass": "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",
"compositeId": "BBG123BLYYV2"
}
```

```
        "name" : "issueClass",
        "type" : [ "null", "string" ]
      }, {
        "name" : "issueSubtype",
        "type" : [ "null", "string" ]
      }, {
        "name" : "authenticity",
        "type" : [ "null", "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" : "compositeId",
        "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.

### Details

| Field | Name | Type | Description |
|---|---|---|---|
| SOUP Sequence | SoupSequence | long | Auto-incrementing message sequence number. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| 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. |
| 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 |
|---|---|
| { "type" : "record", "name" : "SeqAdjClosingPriceLong", "namespace" : "com.nasdaq.datalink.streaming.nlsplus50", "fields" : [ { "name" : "SoupSequence", "type" : "long" }, { "name" : "timestamp", "type" : "long" }, { "name" : "msgType", "type" : "string" }, { "name" : "symbol", "type" : "string" }, { "name" : "adjClosingPrice", "type" : "long" } ], "version" : "1" } | { "SoupSequence": 123, "timestamp": 7238625218217000, "msgType": "g", "symbol": "ZVZZT", "adjClosingPrice": 102.09 } |

## 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.

### Details

| Field | Name | Type | Description |
|---|---|---|---|
| SOUP Sequence | SoupSequence | long | Auto-incrementing message sequence 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. |
| Consolidated High Price | consHigh | long | The highest price of any high/low eligible transaction on Tapes A, B or C received on the trading day. |
| Consolidated Low Price | consLow | long | The lowest price of any high/low eligible transaction on Tapes A, B or C received on the trading day. |
| Consolidated Closing Price | consClose | long | The final last sale eligible transaction on Tapes A, B or C received on the trading day. |
| Consolidated Volume | consolidatedVolume | long | Reflects the total volume for the issue reported at the consolidated market level. |
| Consolidated Open Price | consOpen | long | The first last sale eligible transactions received on the Trading day for Tapes A, B or C. |

## Schema


```
{
  "type" : "record",
  "name" : "SeqEndOfDayTradeSummaryLongFractional",
  "namespace" : "com.nasdaq.datalink.streaming.nlsplus50",
  "fields" : [ {
    "name" : "SoupSequence",
    "type" : "long"
  }, {
    "name" : "timestamp",
    "type" : "long"
  }, {
    "name" : "msgType",
    "type" : "string"
  }, {
    "name" : "symbol",
    "type" : "string"
  }, {
    "name" : "consHigh",
    "type" : "long"
  }, {
    "name" : "consLow",
    "type" : "long"
  }, {
    "name" : "consClose",
    "type" : "long"
  }, {
    "name" : "consolidatedVolume",
    "type" : "long"
  }, {
    "name" : "consOpen",
    "type" : "long"
  } ],
  "version" : "1"
}
```


## Sample


```
{
"SoupSequence": 123,
“timestamp”: 7238625218217000,
"msgType": "J",
"symbol": "ZVZZT",
"consHigh": 103.11,
"consLow": 102.89,
"consClose": 103.04,
"consolidatedVolume": 4527985.0,
"consOpen": 103.87
}
```

# 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 |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| 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 | Denotes the Reg SHO Short Sale Price Test Restriction status for the issue at the time of the message dissemination. Allowable values are: |

| 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

```
{
  "type" : "record",
  "name" : "SeqShortSaleRestrictionIndicator",
  "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
  "fields" : [ {
    "name" : "SoupSequence",
    "type" : "long"
  }, {
    "name" : "timestamp",
```

## Sample

```
{
"SoupSequence": 123,
“timestamp”: 7238625218217000,
"msgType": "Y",
"symbol": "ZVZZT",
"regSHOAction": "1"
}
```

| | |
|---|---|
| "type" : "long"<br>}, {<br>"name" : "msgType",<br>"type" : "string"<br>}, {<br>"name" : "symbol",<br>"type" : "string"<br>}, {<br>"name" : "regSHOAction",<br>"type" : "string"<br>} ],<br>"version" : "1"<br>} | |

## 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.

### 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 |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Level 1 | level1 | long | Denotes the MWCB Level 1 Value. |
| Level 2 | level2 | long | Denotes the MWCB Level 2 Value. |
| Level 3 | level3 | long | Denotes the MWCB Level 3 Value. |

| Schema | Sample |
|---|---|
| {<br>"type" : "record",<br>"name" : "SeqMWCB",<br>"namespace" :<br>"com.nasdaq.datalink.streaming.nlsplus50",<br>"fields" : [ {<br>"name" : "SoupSequence",<br>"type" : "long"<br>}, {<br>"name" : "timestamp",<br>"type" : "long"<br>}, {<br>"name" : "msgType",<br>"type" : "string"<br>}, {<br>"name" : "level1",<br>"type" : "long"<br>}, {<br>"name" : "level2",<br>"type" : "long" | {<br>"SoupSequence": 123,<br>"msgType": "V",<br>“timestamp”: 7238625218217000,<br>"level1": 5998.77474873,<br>"level2": 4225.6737573,<br>"level3": 3567.35673<br>} |

<table>
<tr>
<td>
<pre>
    }, {
      "name" : "level3",
      "type" : "long"
    } ],
    "version" : "1"
}
</pre>
</td>
<td></td>
</tr>
</table>

## 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 |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Breached Level | breachlevel | string | Denotes the MWCB Level that was breached.<br><br>“1” = Level 1<br>“2” = Level 2<br>“3” = Level 3 |

<table>
<tr>
<th>Schema</th>
<th>Sample</th>
</tr>
<tr>
<td>
<pre>
  {
    "type" : "record",
    "name" : "SeqMWCBStatus",
    "namespace" :
  "com.nasdaq.datalink.streaming.nlsplus50",
    "fields" : [ {
      "name" : "SoupSequence",
      "type" : "long"
    }, {
      "name" : "timestamp",
      "type" : "long"
    }, {
      "name" : "msgType",
      "type" : "string"
    }, {
      "name" : "level",
      "type" : "string"
    } ],
    "version" : "1"
}
</pre>
</td>
<td>
<pre>
{
"SoupSequence": 123,
"msgType":  "W",
“timestamp”: 7238625218217000,
"breachLevel": "1"
}
</pre>
</td>
</tr>
</table>

# 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.

## Details

| Field | Name | Type | Description |
|---|---|---|---|
| SOUP Sequence | SoupSequence | long | Auto-incrementing message sequence number. |
| Message Type | msgType | | h = Operational Halt |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| Stock | symbol | String | Denotes the security symbol for the issue in the Nasdaq execution system |
| Market Code | market | String | **Code** / **Value**<br>Q / Nasdaq<br>B / NASDAQ TEXAS<br>X / PSX |
| Operational Halt Action | action | String | **Code** / **Value**<br>H / Operationally Halted on the identified Market<br>T / Operational Halt has been lifted and Trading resumed |

## Schema

```
{
 "type" : "record",
 "name" : "SeqMarketCenterActionMessage",
 "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
 "fields" : [ {
  "name" : "SoupSequence",
  "type" : "long"
 }, {
  "name" : "timestamp",
  "type" : "long"
 }, {
  "name" : "msgType",
  "type" : "string"
 }, {
  "name" : "symbol",
  "type" : "string"
 }, {
  "name" : "market",
  "type" : "string"
 }, {
```

## Sample

```
{
"SoupSequence": 123,
"msgType": "h",
“timestamp”: 7238625218217000,
"symbol": "ZVZZT",
"market": "Q",
"action": "H"
}
```

```
      "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.

### Details:

| Field | Name | Type | Description |
|---|---|---|---|
| SOUP Sequence | SoupSequence | long | Auto-incrementing message sequence number. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| 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. |
| Reference For Net Change | refForNetChange | string | Reflects the current trading state for the issue. The allowable values are:<br><br>**Code** / **Value**<br>F – First Trade Price<br>W – Underwriter Price |
| Reference Price | refPrice | long | Reference Price |

### Schema


```
{
  "type" : "record",
  "name" : "SeqIPOLongMessage",
  "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
  "fields" : [ {
    "name" : "SoupSequence",
    "type" : "long"
  }, {
    "name" : "timestamp",
    "type" : "long"
  }, {
    "name" : "msgType",
    "type" : "string"
  }, {
```


### Sample


```
{
"SoupSequence": 123,
“timestamp”: 7238625218217000,
"msgType": "i",
"symbol": "ZVZZT",
"refForNetChange": "F",
"refPrice": 101.34
}
```

```
      "name" : "symbol",
      "type" : "string"
    }, {
      "name" : "refForNetChange",
      "type" : "string"
    }, {
      "name" : "refPrice",
      "type" : "long"
    } ],
    "version" : "1"
}
```


## 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. |
| Timestamp | timestamp | long | Timestamp represented in nanoseconds since Epoch 1/1/1970 00:00:00 UTC |
| 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 | Denotes the IPO release time, in seconds since Epoch 1/1/1970 00:00:00 UTC.<br><br>NOTE: If the quotation period is being canceled/postponed, we should state that<br>1. IPO Quotation Time will be set to 0<br>2. IPO Price will be set to 0 |
| IPO Quotation Release Qualifier | releaseQualifier | string | **Code** / **Description**<br>A — **Anticipated quotation release time** *This value would be used when Nasdaq Market Operations initially enters the IPO instrument for release.*<br>C — **IPO release canceled/postponed** *This value would be used when Nasdaq Market Operations cancels or postpones the release of the IPO instrument.* |

| | | | |
|---|---|---|---|
| IPO Price | ipoPrice | long | Denotes the IPO price to be used for intraday net change calculations.<br><br>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. |

## Schema


```
{
 "type" : "record",
 "name" : "SeqIpoQuotingLong",
 "namespace" :
"com.nasdaq.datalink.streaming.nlsplus50",
 "fields" : [ {
  "name" : "SoupSequence",
  "type" : "long"
 }, {
  "name" : "timestamp",
  "type" : "long"
 }, {
  "name" : "msgType",
  "type" : "string"
 }, {
  "name" : "symbol",
  "type" : "string"
 }, {
  "name" : "releaseTime",
  "type" : "int"
 }, {
  "name" : "releaseQualifier",
  "type" : "string"
 }, {
  "name" : "ipoPrice",
  "type" : "long"
 } ],
 "version" : "1"
}
```


## Sample


```
{
"SoupSequence": 123,
“timestamp”: 7238625218217000,
"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 |
| MWC0 | 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 Depositary 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 Depositary 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 5.0** **November 9, 2026**
All timestamps changed to Epoch.

**NLS Plus Version 4.0** **February 19, 2026**
Value “Z” added to IPO flag for non-IPO new issues.

**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.