Nasdaq PSX Last Sale

Product Overview

Nasdaq PSX Last Sale SM (PLS) is a direct data feed product offered by Nasdaq to support the PSX Trading and Listing Market upon launch. PLS covers the full range of issues including Nasdaq, New York Stock Exchange (NYSE)-, other regional exchange-listed securities. PLS provides Realtime, intra-day trade data from the PSX execution system.

Market data distributors may use the PLS data feed to update real-time stock tickers, portfolio trackers, trade alert programs, time and sale graphs, and other display systems.

Publisher

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 Link 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 integer fields, supplied with an associated precision. Unless specifically denoted as a Signed Price, Prices are unsigned. When converted to a decimal format, prices are in fixed point format, where the precision defines the number of decimal places. For example, a Price (4) field has an implied 4 decimal places. The maximum value of a Price (4) in PLS is 200,000.0000 (decimal, 77359400 hex). In certain rare instances, the maximum price can exceed 200,000.0000

Timestamp reflects the PSX 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.

All alphanumeric fields are left-justified, ASCII fields. Padding spaces appear on the right as necessary.

Delivery

Nasdaq Data Link 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 Nasdaq Data Link API. While the SDK is open source, connecting to the API does require credentials, which are provided by Nasdaq during an on-boarding process.

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

Contents

Product Overview	1
Publisher	1
Data Types	1
Delivery	1
Contents	3
System Event Message:	5
Details:	5
Schema:	6
Sample:	6
Trade Report:	7
Details:	7
Schema:	10
Sample:	11
Trade Cancel/Error:	12
Details:	12
Schema:	13
Sample:	15
Trade Correction:	15
Details:	15
Schema:	17
Sample:	19
Administrative Messages	19
Stock Trading Action:	19
Details:	20
Schema:	21
Sample:	22
Stock Directory:	22
Details:	22
Schome:	26

Sample:	. 28
Regulation SHO Short Sale Price Test Restricted Indicator:	. 29
Details:	. 29
Schema:	. 30
Sample:	. 31
Market-Wide Circuit Breaker (MWCB) Message – Decline Level:	. 31
Details:	. 31
Schema:	. 31
Sample:	. 32
Market-Wide Circuit Breaker (MWCB) Message – Status:	. 32
Details:	. <i>33</i>
Schema:	. 33
Sample:	. 34
Operational Halt:	.34
Details:	.34
Schema:	. 35
Sample:	. 36
Appendix A – Last Sale Processing	.37
a) Last Sale Calculation	.37
b) Last Trade Calculation	40
c) Net Change Calculation	40
Appendix B – Sale Condition Modifier Definitions	. 41
Appendix C - Stock Symbol Convention	43
Appendix D – Trading Action Reason Codes	. 44
Appendix E - Issue Classification Values	46
Appendix F - Issue Sub-Type Values	47

Message Formats

System Event Message:

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

Field	Name	Туре	Description	
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.	
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.	
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-7 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK. 	
Message Type	msgType	string	S = System Event Message	
Event Code	event	string	PLS events for which the message is being generated. Possible values:	
			Code Value	
			O Start of Transmissions: Denotes that the PSX Last Sale has started its daily transmission schedule.	
			S Start of System Hours: This message indicates that Nasdaq is open and ready to start accepting orders.	
			Q Start of Market Hours: Denotes the start of the Nasdaq PSX Last Sale (PLS) 4 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	

	1	
	E	End of System Hours: Indicates that Nasdaq is now closed and will not accept any new orders today.
	С	End of Transmissions: Denotes that the PSX Last Sale has ended its daily transmission schedule.

}

```
"type": "record",
"name": "SeqSystemEventMessage",
"fields": [
   "name": "SoupPartition",
   "type": "int"
   "name": "SoupSequence",
   "type": "long"
   "name": "trackingID",
   "type": "long"
   "name": "msgType",
   "type": "string"
   "name": "event",
   "type": "string"
 }
]
}
Sample:
"SoupPartition": 0,
"SoupSequence": 1,
"trackingID": 7238625218217,
"msgType": "S",
"event": "O"
```

Trade Report:

The following message is used to relay PSX execution system transactions that are reported for the current business day. Please note that PSX only reports one-side of a trade execution on the PSX Last Sale (PLS) feed and other data feed products.

Field	Name	Туре	Description		
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.		
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.		
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK. 		
Message Type	msgType	string	T = Trade Report		
Originating Market Center Identifier	marketCenter	string	Denotes the PSX market system that generated the trade report message. The allowable values are: Code Value X PSX execution system		
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 B.		
Security Class	securityClass	string	Indicates the primary listing market for the issue. Allowable values are:		

			Code	Value		
			Q	Nasdac	1	
			N	NYSE		
			А	NYSE A	merican	
			Р	NYSE A	rca	
			Z	BATS		
			V	Investo	ors' Exchange, LLC	
Trade Control Number	controlNumber	string			(system internal control number the given trade transaction.	
		Please note that the Trade Control Number the PSX host system reflected in the Mark field. This number is used as a key field for cancellations and trade corrections.		tem reflected in the Market Cento er is used as a key field for trade		
Trade Price	price	Int	The price associated with the trade transaction being reported. Refer to Data Types for field processing.			
Trade Size	size	Int	Indicates the reported number of shares on the trade transaction.			
Sale Condition Modifier	saleCondition	string	Sale condition modifier consists of four levels as defined below.			efined
			Level 1 Used for Settlement Type information. Allowable values are: Allowable values are:			values
			Code		Value	
			@		Regular Settlement	
			С		Cash Settlement	
			N		Next Day Settlement	
			R		Seller Settlement	
			Level 2			

Used for <u>SEC Regulation NMS</u> Trade Through Exemption Codes. Allowable values are:

Code	Value
F	Intermarket Sweep
0	Opening Print
4	Derivative Priced
5	Re-Opening Print
6	Closing Print
7	Qualified Contingent Trade (QCT)
<space></space>	Not applicable

Level 3 Used for Extended Hours or Sold Codes. Allowable values are:

Code	Value
Т	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></space>	Not applicable

Level 4 Used for special sale condition codes. Please note that this field is case sensitive. Allowable values are:

Code	Value
А	Acquisition
В	Bunched
D	Distribution
Н	Price Variation Transaction
М	PSX Official Close Price – for PSX-listed securities only

Р	Prior Reference Price
Q	PSX Official Opening Price
S	Split Trade
V	Contingent Trade
W	Average Price Trade ¹
X	Cross Trade
0	Odd lot execution
x	Odd Lot Cross execution
<space></space>	Not applicable

```
"name": "marketCenter",
   "type": "string"
   "name": "symbol",
   "type": "string"
   "name": "securityClass",
   "type": "string"
 },
   "name": "controlNumber",
   "type": "string"
   "name": "price",
   "type": "int"
 },
   "name": "size",
   "type": "int"
   "name": "saleCondition",
   "type": "string"
]
}
Sample:
"SoupPartition": 0,
"SoupSequence": 123,
 "trackingID": 7238625218217,
 "msgType": "T",
"marketCenter": "Q",
 "symbol": "ZVZZT",
 "securityClass": "Q",
 "controlNumber": "12345",
 "price": 101.12,
"size": 500,
 "saleCondition": "@4LB"
```

Trade Cancel/Error:

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

Field	Name	Туре	Description		
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.		
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.		
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK. 		
Message Type	msgType	string	X = Trade Cancel/Error		
Originating Market Center Identifier	marketCenter	string	Denotes the Nasdaq market system that generated the trade report and cancel/error message. The allowable values are:		
			Code Value		
			X PSX Execution System		
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 B.		
Security Class	securityClass	string	Indicates the primary listing market for the issue. Allowable values are:		

			Code	Value
			Q	Nasdaq
			N	NYSE
			А	NYSE American
			Р	NYSE Arca
			Z	BATS
			V	Investors' Exchange, LLC
			В	BX-listed securities
Original Trade Control Number	origControlNumber	string		ne source's internal control number associated ven trade transaction.
				e that the Trade Control Number is specific to system reflected in the Market Center ID field.
Original Trade Price	origPrice	int		orice for the original trade transaction. Refer oes for field processing.
Original Trade Size	origSize	int	Reported n	number of shares for original trade transaction.
Original Sale Condition Modifier	origSaleCondition	string		e sale condition modifiers as reported on the de transaction.

```
{
  "type": "record",
  "name": "SeqTradeCancel",
  "fields": [
     {
        "name": "SoupPartition",
        "type": "int"
     },
     {
}
```

```
"name": "SoupSequence",
  "type": "long"
 },
  "name": "trackingID",
  "type": "long"
  "name": "msgType",
  "type": "string"
 },
  "name": "marketCenter",
  "type": "string"
  "name": "symbol",
  "type": "string"
 },
  "name": "securityClass",
  "type": "string"
  "name": "origControlNumber",
  "type": "string"
 },
  "name": "origPrice",
  "type": "int"
  "name": "origSize",
  "type": "int"
 },
  "name": "origSaleCondition",
  "type": "string"
 }
]
```

}

Sample:

```
{
    "SoupPartition": 0,
    "SoupSequence": 123,
    "trackingID": 7238625218217,
    "msgType": "X",
    "marketCenter": "Q",
    "symbol": "ZVZZT",
    "securityClass": "Q",
    "origControlNumber": "12345",
    "origPrice": 101.12,
    "origSaleCondition": "@4LB"
}
```

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.

Field	Name	Туре	Description
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Tracking Number	trackingID	long	Message Tracking number, compound key containing: • bytes 0-1 = Nasdaq internal tracking number • bytes 2-6 = Timestamp in nanoseconds from midnight

			com.nas	See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK.	
Message Type	msgType	string	C = Trade	Correction	
Originating Market Center Identifier	marketCenter	string	the trade	the Nasdaq market system that generated report and cancel/error message. The values are:	
			Code	Value	
			Х	PSX Execution System	
Issue Symbol	symbol	string		the Nasdaq-assigned issue symbol of the for which the trade report is being	
			generated. For details on Nasdaq symbology, please refer to Appendix B.		
Security Class	securityClass	string		the primary listing market for the issue. e values are:	
			Code	Value	
			Q	Nasdaq	
			N	NYSE	
			А	NYSE American	
			Р	NYSE Arca	
			Z	BATS	
			٧	Investors' Exchange, LLC	
			В	BX-listed securities	
Original Trade Control Number	origControlNumber	string		the source's internal control number d with the given trade transaction.	

			Please note that the Trade Control Number is specific to the source system reflected in the Market Center ID field.
Original Trade Price	origPrice	int	Reported price for the original trade transaction. Refer to Data Types for field processing.
Original Trade Size	origSize	int	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	int	Indicates the price for the corrected trade transaction. Refer to Data Types for field processing.
Corrected Trade Size	correctedSize	int	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.

```
{
  "type": "record",
  "name": "SeqTradeCorrection",
  "fields": [
  {
     "name": "SoupPartition",
     "type": "int"
```

```
},
 "name": "SoupSequence",
 "type": "long"
},
 "name": "trackingID",
 "type": "long"
 "name": "msgType",
 "type": "string"
 "name": "marketCenter",
 "type": "string"
},
 "name": "symbol",
 "type": "string"
 "name": "securityClass",
 "type": "string"
 "name": "origControlNumber",
 "type": "string"
 "name": "origPrice",
 "type": "int"
 "name": "origSize",
 "type": "int"
 "name": "origSaleCondition",
 "type": "string"
 "name": "correctedControlNumber",
 "type": "string"
},
 "name": "correctedPrice",
 "type": "int"
},
 "name": "correctedSize",
 "type": "int"
},
```

```
"name": "correctedSaleCondition",
   "type": "string"
 }
]
}
Sample:
 "SoupPartition": 0,
 "SoupSequence": 123,
 "trackingID": 7238625218217,
 "msgType": "C",
 "symbol": "ZVZZT",
 "securityClass": "Q",
 "origControlNumber": "12345",
 "origPrice": 101.12,
 "origSize": 500,
 "origSaleCondition": "@4LB",
 "correctedControlNumber": "67890",
 "correctedPrice": 100.45,
 "correctedSize": 475.
 "correctedSaleCondition": "@FUD"
}
```

Administrative Messages

Stock Trading Action:

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

Prior to the start of system hours, PSX will send out a Trading Action spin. In the spin, PSX will send out a Stock Trading Action message with the "T" (Trading Resumption) for all Nasdaq-, PSX-, and other exchange-listed securities that are eligible for trading on the PSX market 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 PSX platform at the start of the system hours. Please note that securities may be halted in the PSX system for regulatory or operational reasons.

After the start of system hours, PSX 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, is released for quotation, or is released for trading.

Field	Name	Туре	Description		_
SOUP Partition	SoupPartition	Int	Message pa	rtition identifier. Ignore.	
SOUP Sequence	SoupSequence	long	Auto-increm	nenting message sequence number.	
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK. 		mber from
Message Type	msgType	string	H = Trading Action		
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	market	string	Indicates the primary listing market for the issue. Allowable values are:		٠.
			Code	Value	
			Q	Nasdaq	
			N	NYSE	
			А	NYSE American	
			Р	NYSE Arca	
			Z	BATS	
			V	Investors' Exchange, LLC	
			В	BX-listed securities	

Current Trading State	tradingState	string	Reflects the allowable va	current trading state for the issue. The lues are:
			Code	Value
			Н	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)
			Т	Trading on PSX
Reason	reason	string		Market Ops or Market Watch code for the change. Refer to Appendix C for current

```
"type": "record",
"name": "SeqTradingStateMessage",
"fields": [
{
    "name": "SoupPartition",
    "type": "int"
},
{
    "name": "SoupSequence",
    "type": "long"
},
{
    "name": "trackingID",
    "type": "long"
},
{
    "name": "msgType",
    "type": "string"
},
{
    "name": "filler",
    "type": "string"
```

```
},
   "name": "symbol",
   "type": "string"
  },
   "name": "market",
   "type": "string"
  },
   "name": "tradingState",
   "type": "string"
   "name": "reason",
   "type": "string"
  }
]
}
Sample:
 "SoupPartition": 0,
 "SoupSequence": 123,
 "trackingID": 7238625218217,
 "msgType": "R",
 "symbol": "ZVZZT",
 "market": "Q",
 "tradingState": "T",
"reason": "M1"
}
```

Stock Directory:

At the start of each trading day, Nasdaq disseminates stock directory messages for all active Nasdaq and non-Nasdaq-listed security symbols.

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

Field	Name	Type Description	
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.

Tracking Number	trackingID	long	• by	racking number, compound key ytes 0-1 = Nasdaq internal tracki ytes 2-6 = Timestamp in nanosec hidnight	ng number
			com.nasc	rackingID class in the dag.ncdsclient.internal within the SDK.	utils
Message Type	msgType	string	R = Stock D	Directory Message	
Stock	symbol	string	trading act	Nasdaq-assigned indicator for issue for which the trading action message is being generated. For details on Nasdaq symbology, please refer to Appendix B.	
Market Category	marketClass	string	Indicates L	Indicates Listing market or listing market tier for the issue	
			Code	Definition]
			Nasdaq-Lis	sted Instruments]
			Q	Nasdaq Global Select Market SM	
			G	Nasdaq Global Market SM	
			S	Nasdaq Capital Market®	
			Non-Nasdo	aq-Listed Instruments	
			N	New York Stock Exchange (NYSE)	
			Α	NYSE American	
			Р	NYSE Arca	
			Z	BATS Z Exchange	
			V	Investors' Exchange, LLC	
			<space></space>	Not available	
Financial Status Indicator	fsi	string		q-listed issues, this field indicates empliance with Nasdaq continue ents.	
			Code	Definition]
			Nasdaq-Lis	sted Instruments]
			D	Deficient]
			Е	Delinquent]
			Q	Bankrupt	_
			S	Suspended	_
			G	Deficient and Bankrupt	1
			H J	Deficient and Delinquent 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 Non-Nasdaq-Listed Instruments <space> Not available. Firms should refer to SIAC feeds for code if needed.</space>
Round Lot Size	roundLotSize	int	Denotes the number of shares that represent a round lot for the issue
Round Lots Only	roundLotOnly	string	Indicates if Nasdaq system limits order entry for issue
			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.
Issue Classification	issueClass	string	Identifies the security class for the issue as assigned by Nasdaq. See Appendix for allowable values.
Issue Sub-Type	issueSubtype	string	Identifies the security sub-type for the issue as assigned by Nasdaq. See Appendix for allowable values.
Authenticity	authenticity	string	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. Code Definition
			P Live/Production T Test
Short Sale Threshold Indicator	shortThreshold	string	Indicates if a security is subject to mandatory close-out of short sales under SEC Rule 203(b)(3).

			Code	Definition
			Y	Issue is restricted under SEC Rule 203(b)(3)
			N	Issue is not restricted
			<space></space>	Threshold Indicator not
				available
IPO Flag	ipo	string	This field is	the Nasdaq security is set up for IPO release. intended to help Nasdaq market participant y with FINRA Rule 5131(b).
			Code	Definition
				sted Instruments
			Υ	Nasdaq listed instrument is
				set up as a new IPO security
			N	Nasdaq listed instrument is
				not set up as a new IPO
				security
				aq-Listed Instruments
			<space></space>	Not available
Price Tier				Darameter is to be used for the instrument. D Rule for details. Definition
			1	Tier 1 NMS Stocks and
				select ETPs
			2	Tier 2 NMS Stocks
			<space></space>	Not applicable
ETP Flag	etf	string	Indicates wh product (ETI	nether the security is an exchange traded P):
			Code	Definition
			Υ	Instrument is an ETP
			N	Instrument is not an ETP
			<space></space>	Not available
ETP Leverage Factor	etfFactor	int	underlying in increases by	ntegral relationship of the ETP to the ndex. Example: If the underlying Index a value of 1 and the ETP's Leverage factor is the ETF will increase/decrease (see Inverse)
				ctor is rounded to the nearest integer below, e factor 1 would represent leverage factors of

			This field is purposes.	s used for LULD Tier I price band c	calculation
Inverse Indicator	inverseETF	string		he directional relationship between	en the ETP
			Code	Definition	1
			Υ	ETP is an Inverse ETP	
			N	ETP is not an Inverse ETP	
				An ETP Leverage Factor of 3 and a ' indicates the ETP will decrease b	

```
"type": "record",
"name": "SeqDirectoryMessage",
"fields": [
  "name": "SoupPartition",
"type": "int"
  "name": "SoupSequence",
"type": "long"
 },
  "name": "trackingID",
  "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"
]
},
 "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"
]
}
Sample:
 "SoupPartition": 0,
 "SoupSequence": 123,
 "trackingID": 7238625218217,
 "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"
```

Regulation SHO Short Sale Price Test Restricted Indicator:

In February 2011, 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 a Reg SHO Short Sale Price Test Restricted Indicator.

The Reg SHO Short Sale Price Test Restricted Indicator message is disseminated intra-day when a security has a price drop of 10% or more from the adjusted prior day's Nasdaq Official Closing Price (NOCP). Once a message with the "S" indicator is disseminated, all short sale orders entered for the given security will be subject to processing under Rule 201 (Alternative Bid Tick Rule) of Reg SHO for the remainder of the trading day or until a "C" action message is disseminated whichever is sooner.

In addition, Nasdaq supports a pre-opening spin of Reg SHO Short Sale Price Test Restricted Indicator messages for those securities in which Rule 201 will remain in effect for the current trading day.

Field	Name	Туре	Description
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK.
Message Type	msgType	string	Y = Short Sale Restriction Indicator
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	g SHO Action regSHOAction string	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	
		2		Test Restriction in effect	
				due to an intra-day price	
				drop in security	
			2	Reg SHO Short Sale Price	
				Test Restriction remains in	
				effect	

```
"type": "record",
"name": "SeqShortSaleRestrictionIndicator",
"fields": [
   "name": "SoupPartition",
   "type": "int"
 },
   "name": "SoupSequence",
   "type": "long"
 },
   "name": "trackingID",
   "type": "long"
   "name": "msgType",
   "type": "string"
 },
   "name": "symbol",
   "type": "string"
  "name": "regSHOAction",
   "type": "string"
]
}
```

Sample:

```
{
    "SoupPartition": 0,
    "SoupSequence": 123,
    "trackingID": 7238625218217,
    "msgType": "Y",
    "symbol": "ZVZZT",
    "regSHOAction": "1"
```

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	Туре	Description	
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.	
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.	
Tracking Number	trackingID	long	Message Tracking number, compound key containing: • bytes 0-1 = Nasdaq internal tracking number • bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK.	
Message Type	msgType	string	V = Market wide circuit breaker Decline Level Message	
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.	

```
{
  "type": "record",
  "name": "SeqMWCB",
  "fields": [
    {
       "name": "SoupPartition",
       "type": "int"
    },
```

```
"name": "SoupSequence",
   "type": "long"
   "name": "trackingID",
   "type": "long"
   "name": "msgType",
   "type": "string"
 },
   "name": "level1",
   "type": "long"
   "name": "level2",
   "type": "long"
   "name": "level3",
   "type": "long"
 }
]
}
Sample:
 "SoupPartition": 0,
 "SoupSequence": 123,
"trackingID": 7238625218217,
 "msgType": "V",
 "level1": 252345,
 "level2": 689678567,
 "level3": 12343
}
```

Market-Wide Circuit Breaker (MWCB) Message – Status:

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

Details:

Field	Name	Туре	Description	
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.	
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.	
Tracking Number	trackingID	long	 Message Tracking number, compound key containing: bytes 0-1 = Nasdaq internal tracking number bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK. 	
Message Type	msgType	string	W = Market-Wide Circuit Breaker Status message	
Breached Level	level	string	Denotes the MWCB Level that was breached. "1" = Level 1 "2" = Level 2 "3" = Level 3	

```
"type": "record",
"name": "SeqMWCBStatus",
"fields": [
{
    "name": "SoupPartition",
    "type": "int"
},
{
    "name": "SoupSequence",
    "type": "long"
},
{
    "name": "trackingID",
    "type": "long"
},
{
    "name": "msgType",
    "type": "string"
},
```

```
{
  "name": "level",
  "type": "string"
}
}
Sample:

{
  "SoupPartition": 0,
  "SoupSequence": 123,
  "trackingID": 7238625218217,
  "msgType": "W",
  "level1": "1"
}
```

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 market place.

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

Field	Name	Туре	Description	
SOUP Partition	SoupPartition	Int	Message partition identifier. Ignore.	
SOUP Sequence	SoupSequence	long	Auto-incrementing message sequence number.	

Tracking Number	trackingID	long	Message Tracking number, compound key containing: • bytes 0-1 = Nasdaq internal tracking number • bytes 2-6 = Timestamp in nanoseconds from midnight See the TrackingID class in the com.nasdaq.ncdsclient.internal.utils package within the SDK.		
Message Type	msgType		h = Operational Halt		
Stock	symbol		Denotes the security symbol for the issue in the Nasdaq execution system		
Market Code	Market Code market				
			Code	Value	
			Q	Nasdaq	
			В	BX	
			Х	PSX	
Operational Halt	action				
Action			Code	Value	
			Н	Operationally Halted on the identified Market	
			Т	Operational Halt has been lifted and Trading resumed	

```
"name": "msgType",
   "type": "string"
   "name": "symbol",
   "type": "string"
   "name": "market",
   "type": "string"
  },
   "name": "action",
   "type": "string"
]
}
Sample:
 "SoupPartition": 0,
 "SoupSequence": 123,
 "trackingID": 7238625218217,
 "msgType": "h",
 "symbol": "ZVZZT",
"market": "Q",
 "action": "H"
}
```

Appendix A – Last Sale Processing

SEC Vendor Display Rule

The Securities and Exchange Commission (SEC) has established certain display standards for market data vendors. For more information, please contact the SEC directly.

PLS carries only trade transactions executed on the PSX system. Since PLS is not a consolidated trade data feed, it should not be used to feed market data displays that are subject to the SEC Vendor Display Rule.

Issue Price-Level Statistics

PLS only provides raw trade data from the PSX execution system. If needed, firms should create their own algorithms for issue- and market center-level statistics. To help in the process, PSX offers the following guidelines.

a) Last Sale Calculation

Within the market data industry, the term "last sale" has been widely used in conjunction with the SEC Vendor Display Rule. "Last Sale" is typically used to denote the most recent round or mixed lot trade transaction reported by a market center with an eligible sale condition code for the regular U.S. market session. For consolidated PSX displays, firms should use the time stamp field from the Trade

Report message to determine the proper trade sequence order for last sale calculations as well as time and sales displays.

To facilitate a "Last Sale" calculation, PLS includes the sale condition modifier for the PSX execution system transactions. The Sale Condition Modifier field consists of four levels. A trade should only be applied to the high, low, last sale, and volume calculations if all four sales condition modifiers so allow.

Sale Condition – Level 1 denotes the settlement type of the transaction. If a transaction has a special settlement code, firms should not include transaction in high, low, or last sale price calculations. If the transaction has a regular settlement type, firms should process the next levels to determine proper processing.

Code	Value	High/Low	Last Sale	Volume
@	Regular Settlement	Yes, if other levels do not overrule	Yes, if other levels do not overrule	Yes, if other levels do not overrule
С	Cash Settlement	No	No	Yes
N	Next Day Settlement	No	No	Yes
R	Seller Settlement	No	No	Yes

Sale Condition – Level 2 indicates if a transaction was trade through exempt.

Code	Value	High/Low	Last Sale	Volume
F	Intermarket Sweep	Yes	Yes	Yes

Sale Condition – Level 3 indicates if the transaction was reported during regular market hours with a "sold" code or during the extended trading hours session. Historically, only trades that occur during normal market hours and in proper sequence are included in the "last sale" calculation.

Code	Value	High/Low	Last Sale	Volume
Т	Extended Hours Trade	No	No	Yes
U	Extended Hours Trade – Reported Late or Out of Sequence	No	No	Yes
L	Sold Last – Reported Late But In Sequence	Yes	Yes	Yes
Z	Sold – Out of Sequence	Yes	No (except if first regular market trade of day)	Yes
<space></space>	Not applicable	See other levels	See other levels	See other levels

Sale Condition – Level 4 indicates special trading situations.

For the PSX execution system, this sale condition level is used to denote when a trade record contains the PSX Official Opening Price or PSX Official Closing Price values.

Nasdaq PSX Last Sale (PLS) 30

Since PSX also reports the underlying cross execution transaction to the tape, the PSX Opening and Closing report volume should not be included in the daily volume calculation.

For the Cross Trade (X) modifiers, firms should defer to the Level 2 and Level 3 sale condition codes to determine whether to include the trade in the high, low, and last sale calculation statistics.

As outlined in the table below, PSX also observes special processing rules for the Prior Reference Price (P), Weighted Average Price (W), and Odd Lot Execution (o) codes.

Code	Value	High/Low	Last Sale	Volume
Α	Acquisition	Yes	Yes	Yes
В	Bunched	Yes	Yes	Yes
D	Distribution	Yes	Yes	Yes
Н	Price Variation Trade	No	No	Yes
М	PSX Official Close Price	Yes for PSX market center only or PSX system- wide displays No for PSX / FINRA TRF only displays	Yes (for PSX market center only or PSX system- wide displays only)	No
О	Odd lot execution ³	No	No	Yes
Р	Prior Reference Price	Yes	No (except if first regular market trade of day)	Yes
Q	PSX Official Opening Price	Yes for PSX market center only or PSX system- wide displays No for PSX / FINRA TRF only displays	No	No
S	Split Trade	Yes	Yes	Yes
V	Contingent Trade	No	No	Yes

Code	Value	High/Low	Last Sale	Volume
W	Average Price Trade ⁴	No	No	Yes
X	Cross Trade – For PSX -listed securities only	Yes (if sent with an eligible Level 2 modifier)	Yes (if sent with an eligible Level 2 modifier)	Yes
х	Odd Lot Cross Trade	No	No	Yes
<space></space>	Not applicable	See other levels	See other levels	See other levels

b) Last Trade Calculation

The term "Last Trade" is more widely applied within the market data industry. Many firms use the term "last trade" to refer to the most recent trade transaction reported in sequence. In addition to the "last sale" codes, many firms include odd lots and extended trading hour executions in the "last trade" price calculations.

c) Net Change Calculation

PLS does not include a net change indicator field. Data feed recipient must perform their own calculation for last sale eligible and last trade eligible transactions. The formula should be as follows:

Net Change for Issue Symbol = Current Trade Price - Adjusted Previous Close Price

To obtain the Adjusted Previous Close, firms will need to apply dividends to the previous day's closing price value. Nasdaq offers several products to support the PSX and Nasdaq-listed securities:

For Nasdaq-listed securities, firms may obtain dividend information via the Nasdaq Daily List product page on the Nasdaq Trader website.

For NYSE-, NYSE American-, NYSE Arca-, BATS-, IEX-listed securities, firms should contact the listing exchange directly to inquire about corporate action data delivery options.

Dividend adjustments are typically applied to the closing price on the day prior to ex-date and reflected on the ex-date, the next business day. Cash dividends of \$0.01 or greater should be subtracted from the closing price. For stock dividends, the closing price should be divided by the dividend amount.

Appendix B – Sale Condition Modifier Definitions

The following definitions are included for informational purposes only.

Sale Condition Modifier	Description	
Acquisition (A)	A transaction made on the Exchange as a result of an acquisition.	
Average Price Trade (W)	A trade where the price reported is based upon an average of the prices for transactions in a security during all or any portion of the trading day. Please note that the Nasdaq market center also uses this value to report stopped stock	
	For PLS processing, Nasdaq will use the sale condition modifier of "W" for all Average Price Trades regardless of the listing market center. While the UTP SIP uses the same sale condition modifier code for Nasdaq-listed issues, it should be noted that SIAC / CTA SIP uses a "B" sale condition modifier for Average Price Trades for NYSE-, NYSE American-, NYSE Arca and BATS-listed securities.	
Bunched Trade (B)	A trade representing an aggregate of two or more regular trades in a security occurring at the same price either simultaneously or within the same 60-second period, with no individual trade exceeding 10,000 shares.	
Bunched Sold Trades (G)	A bunched trade that is reported late.	
Cash Sale (C)	A transaction that calls for the delivery of securities and payment on the same day the trade took place.	
Cross Trade (X)	A Cross Trade a trade transaction resulting from a market center's crossing session.	
Dot-T or Form-T (T)	A trade executed before or after the regular US market hours. Please note that the Dot-T modifier should be appended to all transactions that occur during the pre- and post-market sessions. The volume of Form-T trades will be included in the calculation of consolidated and market center volume. The price information in Dot-T trades will not be used to update high, low and last sale data for individual securities or indices since they occur outside of normal trade reporting hours.	
Distribution (D)	Sale of a large block of stock in such a manner that the price is not adversely affected.	
Extended Trading Hours - Sold Out of Sequence (U)	Trade reports used to identify extended trading hours trades that are reported more than 30 seconds after execution. Currently, the extended trading hours are comprised of premarket trading from 7 a.m. to 9:30 a.m., Eastern Time (ET), and post-market trading from 4 p.m. to 8:00 p.m., ET.	
	This sale condition would be similar to the existing "T" sale condition in that trades executed outside of market hours will not impact market center or consolidated high, low, or last sale prices for an issue. The transactions would, however, count toward issue and market volume.	
Intermarket Sweep (F)	Intermarket sweep order means a limit order for an NMS stock that meets the following requirements:	
	 When routed to a trading center, the limit order is identified as an intermarket sweep order; and 	
	 Simultaneously with the routing of the limit order identified as an intermarket sweep order, one or more additional limit orders, as necessary, are routed to execute against the full displayed size of any protected bid, in the case of a limit order to sell, or the full displayed size of any protected offer, in the case of a limit order to buy, for the NMS stock with a price that is superior to the limit price of the limit order identified as an intermarket sweep order. These additional routed orders also must be marked as intermarket sweep orders. 	

Sale Condition Modifier	Description
Market Center Close Price (M)	Indicates the "Official" closing value as determined by a Market Center. This transaction report will contain the market center generated closing price. The "M" (Market Center Close Price) sale condition modifier shall only affect the Market Center Closing/Last Sale value and will not affect the consolidated market value.
Market Center Open Price (Q)	Indicates the "Official" opening value as determined by a Market Center. This transaction report will contain the market center generated opening price. The "Q" (Market Center Open Price) sale condition modifier shall only affect the Market Center Opening value and will not affect the consolidated market value. Direct data recipients that maintain individual market center open values should use this value as the official market center opening value and populate data displays accordingly
Next Day (N)	A transaction that calls for the delivery of securities between one and four days (to be agreed by both parties to the trade – the number of days are not noted with the transaction) after the trade date.
Odd Lot Transaction (o)	The Odd Lot sale condition modifier indicates that the execution size for a transaction was less than one round lot for the security. Please note that the consolidated trade feeds offered by the UTP Security Information Processor (UTP SIP) and the Securities Information Automation Corporation (SIAC) do not
	include odd lot execution data at this time.
Opening Prints (O)	The transaction or group of transactions reported as a result of a single-priced opening event by the Market Center.
Price Variation Trade (H)	The Price Variation Trade sale condition code is used to denote a regular market session trade transaction that carries a price that is significantly away from the prevailing consolidated or primary market value at the time of the transaction.
Prior Reference Price (P)	An executed trade that relates to an obligation to trade at an earlier point in the trading day or that refers to a prior referenced price. This may be the result of an order that was lost or misplaced or was not executed on a timely basis.
Seller (R)	A Seller's option transaction is a special transaction that gives the seller the right to deliver the stock at any time within a specific period, ranging from not less than four calendar days to not more than sixty calendar days.
Sold Out of Sequence (Z)	Sold Out of Sequence is used when a trade is printed (reported) out of sequence and at a time different from the actual transaction time.
Sold Last (L)	Sold Last sale condition modifier is used when a trade prints in sequence but is reported late. A Sold Last transaction should only impact the consolidated last sale price for an issue if the market center reporting the sold last transaction also reported the transaction setting the current last sale price.
Split Trade (S)	An execution in two markets when the specialist or Market Maker in the market first receiving the order agrees to execute a portion of it at whatever price is realized in another market to which the balance of the order is forwarded for execution.
Derivatively Priced (4)	A transaction that constituted the trade-through was the execution of an order at a price that was not based, directly or indirectly, on the quoted price of the NMS stock at the time of execution and for which the material terms were not reasonably determinable at the time the commitment to execute the order was made.
Re-Opening Prints (5)	The transaction or group of transactions reported as a result of a single-priced re-opening event by the Market Center.

Sale Condition Modifier	Description
Closing Prints (6)	The transaction or group of transactions reported as a result of a single-priced closing event by the Market Center.

Appendix C - Stock Symbol Convention

For Nasdaq-listed issues, Nasdaq currently restricts its symbol length to a maximum of 8 characters. For common stock issuances, Nasdaq, PSX and BX 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 and BX 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 <u>Ticker Symbol Convention</u> page on the Nasdaq Trader website

Appendix D – 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. Nasdaq may also halt trading for operational reasons. Nasdaq will send out a trading action message to inform its market participants when the trading status of an issue changes. For informational purposes, Nasdaq also attempts to provide the reason for each trading action update. For bandwidth efficiency reasons, Nasdaq uses a 4-byte code for the reason on its outbound data feeds.

REASON CODES FOR TRADING HALT ACTIONS		
Code	Value	
T1	Halt News Pending	
Т2	Halt News Disseminated	
Т5	Single Stock Trading Pause In Effect	
Т6	Regulatory Halt — Extraordinary Market Activity	
Т8	Halt ETF	
T12	Trading Halted; For Information Requested by Listing Market	
H4	Halt Non-Compliance	
Н9	Halt Filings Not Current	
H10	Halt SEC Trading Suspension	
H11	Halt Regulatory Concern	
01	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></space>	Reason Not Available	

REASON CODES FOR (REASON CODES FOR QUOTATION/TRADING RESUMPTION ACTIONS		
Code	Value		
Т3	News and Resumption Times		
Т7	Single Stock Trading Pause / Quotation Only Period		
R4	Qualifications Issues Reviewed/Resolved; Quotations/Trading to Resume		
R9	Filing Requirements Satisfied/Resolved; Quotations/Trading To Resume		
С3	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></space>	Reason Not Available		

For non-Nasdaq-listed issues, Nasdaq abides by any regulatory trading halts and trading pauses instituted by the primary or listing market as appropriate. While Nasdaq does support Trading Action messages for these securities, it is unable to support the full range of Reason Code values.

For the current list of regulatory halts for both Nasdaq- and non-Nasdaq-listed securities, please refer to the <u>Trading Halts page</u> on the Nasdaq Trader website.

Appendix E - Issue Classification Values

Identifies the security class for the issue as assigned by Nasdaq

CODES F	CODES FOR ISSUE CLASSIFICATION VALUES		
Code	Value		
Α	American Depositary Share		
В	Bond		
С	Common Stock		
F	Depository Receipt		
I	144A		
L	Limited Partnership		
N	Notes		
0	Ordinary Share		
Р	Preferred Stock		
Q	Other Securities		
R	Right		
S	Shares of Beneficial Interest		
T	Convertible Debenture		
U	Unit		
٧	Units/Benif Int		
W	Warrant		

Appendix F - Issue Sub-Type Values

CODES FOR	CODES FOR ISSUE CLASSIFICATION VALUES		
Code	Value		
A	Preferred Trust Securities		
Al	Alpha Index ETNs		
В	Index Based Derivative		
С	Common Shares		
СВ	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		
El	ETN-Equity Index-Linked Securities		
EM	Exchange Traded Managed Funds		
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		
0	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		
	1		

U	Portal
V	Contingent Value Right
W	Trust Issued Receipts
WC	World Currency Option
Х	Trust
Υ	Other
Z	Not Applicable