



# Nasdaq BX Last Sale (BLS)

Version 2.1

# 1 Overview

## 1.1 Product Description

Nasdaq BX Last Sale (BLS) is a direct data feed product offered by Nasdaq to support the BX Trading and Listing Market upon launch. BLS covers the full range of issues including Nasdaq-, New York Stock Exchange (NYSE)-, NYSE American-, NYSE Arca-, BATS-, IEXG-, and US regional exchange-listed securities. BLS provides real-time, intra-day trade data from the BX execution system.

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

For pricing and ordering information:

Refer to [Market Data section](#) of the Nasdaq Trader website.

Contact the [Nasdaq Investment Intelligence](#) at +1 301 978 5307 or +45 33 93 33 66.

## 2 Network Protocol Options

For direct data feed subscribers, Nasdaq BX will offer BLS in the following protocol options:

- o [SoupBinTCP](#)
- o [MoldUDP64](#)

For network support and ordering information, please refer to the [Nasdaq Direct Data Products Specifications Page](#) on the Nasdaq Trader website.

## 3 Architecture

BLS will be made up of a series of sequenced messages. Each message is variable in length based on the message. The messages that make up the BLS protocol are typically delivered using a higher level protocol that takes care of sequencing and delivery guarantees.

## 4 Data Types

All integer fields are unsigned big-endian (network byte order) binary encoded numbers.

Prices are integer fields, supplied with an associated precision. 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.

Timestamps reflects the BX system time at which the outbound message was generated. BX 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.

## 5 Message Formats

### 5.1 System Event Message

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

System Event Message										
Name	Offset	Len	Value	Notes						
Tracking Number	0	2	Integer	Nasdaq internal tracking number						
Time Stamp	2	6	Timestamp	Time Stamp						
Message Type	8	1	Alphanumeric	S = System Event Message						
Event Code	9	1	Alphanumeric	Denotes the type of event for which the message is being generated. The allowable values are: <table border="1" data-bbox="792 856 1344 1140"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Start of Transmissions: Denotes that the BX Last Sale has started its daily transmission schedule.</td> </tr> <tr> <td>Q</td> <td>Start of Market Hours: Denotes the start of the</td> </tr> </tbody> </table>	Code	Value	O	Start of Transmissions: Denotes that the BX Last Sale has started its daily transmission schedule.	Q	Start of Market Hours: Denotes the start of the
Code	Value									
O	Start of Transmissions: Denotes that the BX Last Sale has started its daily transmission schedule.									
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.
				S	Start of System Hours: This message indicates that Nasdaq is open and ready to start accepting orders.
				M	End of Market Hours: Denotes the end of the regular US session.
				E	End of System Hours: Indicates that Nasdaq is now closed and will not accept any new orders today.
				C	End of Transmissions: Denotes that the BX Last Sale has ended its daily transmission schedule.

## 5.2 Trade Report

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

Trade Report Message																				
Name	Offset	Len	Type	Value/Description																
Tracking Number	0	2	Integer	Nasdaq internal tracking number																
Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the trade transaction.																
Message Type	8	1	Alphanumeric	T = Trade Report																
Market Center Identifier	9	1	Alphanumeric	Denotes the BX market system that generated the trade report message. The allowable values are: <table border="1" data-bbox="829 919 1382 1115"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BX execution system</td> </tr> <tr> <td>L</td> <td>Over the Counter Trade Reporting Facility (ORF)</td> </tr> </tbody> </table>	Code	Value	B	BX execution system	L	Over the Counter Trade Reporting Facility (ORF)										
Code	Value																			
B	BX execution system																			
L	Over the Counter Trade Reporting Facility (ORF)																			
Issue Symbol	10	8	Alphanumeric	Denotes the security symbol for the issue of the security for which the trade report is being generated. For details on symbology, please refer to Appendix B.																
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="829 1352 1382 1852"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq</td> </tr> <tr> <td>N</td> <td>NYSE</td> </tr> <tr> <td>A</td> <td>NYSE Aermican</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>Z</td> <td>BATS</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td>B</td> <td>BX-listed securities (Pending SEC approval of listing exchange)</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE	A	NYSE Aermican	P	NYSE Arca	Z	BATS	V	Investors' Exchange, LLC	B	BX-listed securities (Pending SEC approval of listing exchange)
Code	Value																			
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B	BX-listed securities (Pending SEC approval of listing exchange)																			

Trade Control Number	19	10	Alphanumeric	Indicates the BX system internal control number associated with the given trade transaction.  Please note that the Trade Control Number is specific to the BX host system reflected in the Market Center ID field. This number is used as a key field for trade cancellations and trade corrections.										
Trade Price	29	4	Price (4)	Denotes the report price on the trade transaction.										
Trade Size	33	4	Integer	Indicates the reported number of shares on the trade transaction.										
Sale Condition Modifier	37	4	Alphanumeric	Sale condition modifier consists of four levels as defined below.										
Sale Condition Modifier – Level 1	37	1	<i>Alphanumeric</i>	Used for Settlement Type information. Allowable values are: <table border="1" data-bbox="829 821 1382 1096"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>@</td> <td>Regular Settlement</td> </tr> <tr> <td>C</td> <td>Cash Settlement</td> </tr> <tr> <td>N</td> <td>Next Day Settlement</td> </tr> <tr> <td>R</td> <td>Seller Settlement</td> </tr> </tbody> </table>	Code	Value	@	Regular Settlement	C	Cash Settlement	N	Next Day Settlement	R	Seller Settlement
Code	Value													
@	Regular Settlement													
C	Cash Settlement													
N	Next Day Settlement													
R	Seller Settlement													

Sale Condition Modifier – Level 2	38	1	<i>Alphanumeric</i>	<p>For Reg NMS eligible securities, this sale condition level is used to define the trade through reason code. For the BX trading market, the allowable codes are:</p> <table border="1" data-bbox="834 344 1382 506"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Intermarket Sweep</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table> <p>For non-Reg NMS securities, this sale condition level is used to identify cross transactions. For BX-listed securities, the allowable codes are:</p> <table border="1" data-bbox="834 707 1382 980"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Opening Print</td> </tr> <tr> <td>5</td> <td>Re-Opening Print</td> </tr> <tr> <td>6</td> <td>Closing Print</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table>	Code	Value	F	Intermarket Sweep	<space>	Not applicable	Code	Value	0	Opening Print	5	Re-Opening Print	6	Closing Print	<space>	Not applicable
Code	Value																			
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<space>	Not applicable																			
Code	Value																			
0	Opening Print																			
5	Re-Opening Print																			
6	Closing Print																			
<space>	Not applicable																			
Sale Condition Modifier – Level 3	39	1	<i>Alphanumeric</i>	<p>Used for Extended Hours or Sold Codes. Allowable values are:</p> <table border="1" data-bbox="834 1079 1382 1497"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Extended Hours Trade</td> </tr> <tr> <td>U</td> <td>Extended Hours Trade – Reported Late or Out of Sequence</td> </tr> <tr> <td>L</td> <td>Sold Last – Reported Late But In Sequence</td> </tr> <tr> <td>Z</td> <td>Sold – Out of Sequence</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table>	Code	Value	T	Extended Hours Trade	U	Extended Hours Trade – Reported Late or Out of Sequence	L	Sold Last – Reported Late But In Sequence	Z	Sold – Out of Sequence	<space>	Not applicable				
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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																			

Sale Condition Modifier – Level 4	40	1	Alphanumeric	Used for special sale condition codes. Please note that this field is case sensitive. Allowable values are:																												
				<table border="1"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Acquisition</td> </tr> <tr> <td>B</td> <td>Bunched</td> </tr> <tr> <td>D</td> <td>Distribution</td> </tr> <tr> <td>H</td> <td>Price Variation Transaction</td> </tr> <tr> <td>M</td> <td>BX Official Close Price – for BX-listed securities only</td> </tr> <tr> <td>P</td> <td>Prior Reference Price</td> </tr> <tr> <td>Q</td> <td>BX Official Opening Price – for BX-listed securities only</td> </tr> <tr> <td>S</td> <td>Split Trade</td> </tr> <tr> <td>W</td> <td>Weighted Average Price</td> </tr> <tr> <td>X</td> <td>Cross Trade – For BX- listed securities only</td> </tr> <tr> <td>o</td> <td>Odd lot execution</td> </tr> <tr> <td>x</td> <td>Odd Lot Cross execution</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table>	Code	Value	A	Acquisition	B	Bunched	D	Distribution	H	Price Variation Transaction	M	BX Official Close Price – for BX-listed securities only	P	Prior Reference Price	Q	BX Official Opening Price – for BX-listed securities only	S	Split Trade	W	Weighted Average Price	X	Cross Trade – For BX- listed securities only	o	Odd lot execution	x	Odd Lot Cross execution	<space>	Not applicable
Code	Value																															
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X	Cross Trade – For BX- listed securities only																															
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x	Odd Lot Cross execution																															
<space>	Not applicable																															

### 5.3 NextShares Trade Report

The following message is used to relay BX execution system and TRF trade transactions for Exchange Traded Managed Funds (NextShares) that are reported for the current business day. Please note that BX only reports one-side of a trade execution on the BX Last Sale (BLS) feed and other data feed products.

Trade Report Message				
Name	Offset	Len	Type	Value/Description
Tracking Number	0	2	Integer	Nasdaq internal tracking number



Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the NextShares trade transaction. Please note that the BX and TRF systems maintain separate time stamps.						
Message Type	8	1	Alphanumeric	M = NextShares Trade Report						
Market Center Identifier	9	1	Alphanumeric	Denotes the Nasdaq market system that generated the trade report message. The allowable values are: <table border="1" data-bbox="938 617 1383 835"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BX execution system</td> </tr> <tr> <td>L</td> <td>Nasdaq/FINRA Trade Reporting Facility (TRF)</td> </tr> </tbody> </table>	Code	Value	B	BX execution system	L	Nasdaq/FINRA Trade Reporting Facility (TRF)
Code	Value									
B	BX execution system									
L	Nasdaq/FINRA Trade Reporting Facility (TRF)									
NextShares Symbol	10	8	Alphanumeric	Denotes the symbol of the NextShares for which the trade report is being generated.						
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="938 1075 1383 1180"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq-Listed Issue</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq-Listed Issue		
Code	Value									
Q	Nasdaq-Listed Issue									
Trade Control Number	19	10	Alphanumeric	Indicates the source's internal control number associated 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. This number is used as a key field for trade cancellations and trade corrections.						
Proxy Price	29	4	Price (4)	Denotes the proxy price on the NextShares trade transaction.						
Trade Size	33	4	Integer	Indicates the reported number of shares on the trade transaction.						

NAV Premium/Discount Amount	37	4	Signed Price (4)	The NAV premium or discount that should be applied to the Proxy Price.  <b>Please note:</b> This is a signed (+/-) field.														
Sale Condition Modifier	41	4	Alphanumeric	Sale condition modifier consists of four levels as defined below.														
Sale Condition Modifier – Level 1	41	1	<i>Alphanumeric</i>	Used for Settlement Type information. Allowable values are:  <table border="1"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>J</td> <td>Proxy Price Settlement</td> </tr> <tr> <td>@</td> <td>Regular Settlement</td> </tr> <tr> <td>C</td> <td>Cash Settlement</td> </tr> <tr> <td>N</td> <td>Next Day Settlement</td> </tr> <tr> <td>R</td> <td>Seller Settlement</td> </tr> </tbody> </table>	Code	Value	J	Proxy Price Settlement	@	Regular Settlement	C	Cash Settlement	N	Next Day Settlement	R	Seller Settlement		
Code	Value																	
J	Proxy Price Settlement																	
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N	Next Day Settlement																	
R	Seller Settlement																	
Sale Condition Modifier – Level 2	42	1	<i>Alphanumeric</i>	Used for <u>SEC Regulation NMS</u> Trade Through Exemption Codes. Allowable values are:  <table border="1"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Intermarket Sweep</td> </tr> <tr> <td>O</td> <td>Opening Print</td> </tr> <tr> <td>4</td> <td>Derivative Priced</td> </tr> <tr> <td>5</td> <td>Re-Opening Print</td> </tr> <tr> <td>6</td> <td>Closing Print</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table>	Code	Value	F	Intermarket Sweep	O	Opening Print	4	Derivative Priced	5	Re-Opening Print	6	Closing Print	<space>	Not applicable
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Sale Condition Modifier – Level 3	43	1	<i>Alphanumeric</i>	<p>Used for Extended Hours or Sold Codes. Allowable values are:</p> <table border="1"> <thead> <tr> <th data-bbox="927 268 1094 323">Code</th> <th data-bbox="1094 268 1398 323">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 323 1094 411">T</td> <td data-bbox="1094 323 1398 411">Extended Hours Trade</td> </tr> <tr> <td data-bbox="927 411 1094 554">U</td> <td data-bbox="1094 411 1398 554">Extended Hours Trade – Reported Late or Out of Sequence</td> </tr> <tr> <td data-bbox="927 554 1094 638">L</td> <td data-bbox="1094 554 1398 638">Sold Last – Reported Late But In Sequence</td> </tr> <tr> <td data-bbox="927 638 1094 722">Z</td> <td data-bbox="1094 638 1398 722">Sold – Out of Sequence</td> </tr> <tr> <td data-bbox="927 722 1094 779">&lt;space&gt;</td> <td data-bbox="1094 722 1398 779">Not applicable</td> </tr> </tbody> </table>	Code	Value	T	Extended Hours Trade	U	Extended Hours Trade – Reported Late or Out of Sequence	L	Sold Last – Reported Late But In Sequence	Z	Sold – Out of Sequence	<space>	Not applicable
Code	Value															
T	Extended Hours Trade															
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L	Sold Last – Reported Late But In Sequence															
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<space>	Not applicable															

Sale Condition Modifier – Level 4	44	1	<i>Alphanumeric</i>	<p>Used for special sale condition codes. Please note that this field is case sensitive. Allowable values are:</p> <table border="1"> <thead> <tr> <th data-bbox="927 338 1094 390">Code</th> <th data-bbox="1094 338 1398 390">Value</th> </tr> </thead> <tbody> <tr> <td data-bbox="927 390 1094 443">A</td> <td data-bbox="1094 390 1398 443">Acquisition</td> </tr> <tr> <td data-bbox="927 443 1094 495">B</td> <td data-bbox="1094 443 1398 495">Bunched</td> </tr> <tr> <td data-bbox="927 495 1094 548">D</td> <td data-bbox="1094 495 1398 548">Distribution</td> </tr> <tr> <td data-bbox="927 548 1094 632">H</td> <td data-bbox="1094 548 1398 632">Price Variation Transaction</td> </tr> <tr> <td data-bbox="927 632 1094 716">M</td> <td data-bbox="1094 632 1398 716">Nasdaq Official Close Price (NOCP)</td> </tr> <tr> <td data-bbox="927 716 1094 768">P</td> <td data-bbox="1094 716 1398 768">Prior Reference Price</td> </tr> <tr> <td data-bbox="927 768 1094 884">Q</td> <td data-bbox="1094 768 1398 884">Nasdaq Official Opening Price (NOOP)</td> </tr> <tr> <td data-bbox="927 884 1094 936">S</td> <td data-bbox="1094 884 1398 936">Split Trade</td> </tr> <tr> <td data-bbox="927 936 1094 989">W</td> <td data-bbox="1094 936 1398 989">Average Price Trade<sup>1</sup></td> </tr> <tr> <td data-bbox="927 989 1094 1041">X</td> <td data-bbox="1094 989 1398 1041">Cross Trade</td> </tr> <tr> <td data-bbox="927 1041 1094 1094">o</td> <td data-bbox="1094 1041 1398 1094">Odd lot execution</td> </tr> <tr> <td data-bbox="927 1094 1094 1178">x</td> <td data-bbox="1094 1094 1398 1178">Odd Lot Cross execution</td> </tr> <tr> <td data-bbox="927 1178 1094 1236">&lt;space&gt;</td> <td data-bbox="1094 1178 1398 1236">Not applicable</td> </tr> </tbody> </table>	Code	Value	A	Acquisition	B	Bunched	D	Distribution	H	Price Variation Transaction	M	Nasdaq Official Close Price (NOCP)	P	Prior Reference Price	Q	Nasdaq Official Opening Price (NOOP)	S	Split Trade	W	Average Price Trade <sup>1</sup>	X	Cross Trade	o	Odd lot execution	x	Odd Lot Cross execution	<space>	Not applicable
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o	Odd lot execution																															
x	Odd Lot Cross execution																															
<space>	Not applicable																															

<sup>1</sup> For NLS 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- and NYSE Arca- listed securities.

#### 5.4 Trade Cancel/Error

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

Trade Cancel/Error Message																				
Name	Offset	Len	Type	Value/Description																
Tracking Number	0	2	Integer	Nasdaq internal tracking number																
Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the trade cancel/error message.																
Message Type	8	1	Alphanumeric	X = Trade Cancel/Error																
Market Center Identifier	9	1	Alphanumeric	Denotes the BX market system that generated the trade report and cancel/error message. The allowable values are: <table border="1" data-bbox="852 871 1388 1066"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BX Execution System</td> </tr> <tr> <td>L</td> <td>Over the Counter Trade Reporting Facility (ORF)</td> </tr> </tbody> </table>	Code	Value	B	BX Execution System	L	Over the Counter Trade Reporting Facility (ORF)										
Code	Value																			
B	BX Execution System																			
L	Over the Counter Trade Reporting Facility (ORF)																			
Issue Symbol	10	8	Alphanumeric	Denotes the security symbol for the issue for which the trade report is being generated. For details on symbology, please refer to Appendix B.																
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="852 1306 1388 1801"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq</td> </tr> <tr> <td>N</td> <td>NYSE Listed</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>Z</td> <td>BATS</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td>B</td> <td>BX-listed securities (Pending SEC approval of listing exchange)</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq	N	NYSE Listed	A	NYSE American	P	NYSE Arca	Z	BATS	V	Investors' Exchange, LLC	B	BX-listed securities (Pending SEC approval of listing exchange)
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Original Trade Control Number	19	10	Alphanumeric	Indicates the BX system internal control number associated with the given trade transaction.  Please note that the Trade Control Number is specific to the BX host system reflected in the Market Center ID field.
Original Trade Price	29	4	Price (4)	Reported price for the transaction.
Original Trade Size	33	4	Integer	Reported number of shares for transaction.
Original Sale Condition Modifier	37	4	Alphanumeric	Defines the sale condition modifiers as reported on the original trade transaction.

#### 5.5 Trade Cancel/Error for NextShares

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

Trade Cancel/Error Message										
Name	Offset	Len	Type	Value/Description						
Tracking Number	0	2	Integer	Nasdaq internal tracking number						
Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the trade cancel/error message						
Message Type	8	1	Alphanumeric	0 = Trade Cancel/Error						
Market Center Identifier	9	1	Alphanumeric	Denotes the Nasdaq market system that generated the trade report and cancel/error message. The allowable values are: <table border="1" data-bbox="950 1470 1388 1722"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq Execution System</td> </tr> <tr> <td>L</td> <td>Nasdaq/FINRA Trade Reporting Facility (TRF)</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq Execution System	L	Nasdaq/FINRA Trade Reporting Facility (TRF)
Code	Value									
Q	Nasdaq Execution System									
L	Nasdaq/FINRA Trade Reporting Facility (TRF)									

Issue Symbol	10	8	Alphanumeric	Denotes the security symbol for the issue for which the trade report is being generated. For details on symbology, please refer to Appendix B.				
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="950 489 1385 596"> <tr> <th>Code</th> <th>Value</th> </tr> <tr> <td>Q</td> <td>Nasdaq-Listed Issue</td> </tr> </table>	Code	Value	Q	Nasdaq-Listed Issue
Code	Value							
Q	Nasdaq-Listed Issue							
Original Trade Control Number	19	10	Alphanumeric	Indicates the source's internal control number associated 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	29	4	Price (4)	Reported proxy price for the transaction.				
Original NAV Premium/Discount Amount	33	4	Signed Price (4)	Original NAV premium or discount originally applied to the Proxy Price.  <b>Please note:</b> This is a signed (+/-) field.				
Original Trade Size	37	4	Integer	Reported number of shares for transaction.				
Original Sale Condition Modifier	41	4	Alphanumeric	Defines the sale condition modifiers as reported on the original trade transaction.				

### 5.6 Trade Correction

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

Trade Correction Message				
Name	Offset	Len	Type	Value/Description
Tracking Number	0	2	Integer	Nasdaq internal tracking number
Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the trade

				correction message.																
Message Type	8	1	Alphanumeric	C = Trade Correction																
Market Center Identifier	9	1	Alphanumeric	Denotes the BX market system that generated the trade report and cancel/error message. The allowable values are: <table border="1" data-bbox="852 478 1383 676"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BX Execution System</td> </tr> <tr> <td>L</td> <td>Over the Counter Trade Reporting Facility (ORF)</td> </tr> </tbody> </table>	Code	Value	B	BX Execution System	L	Over the Counter Trade Reporting Facility (ORF)										
Code	Value																			
B	BX Execution System																			
L	Over the Counter Trade Reporting Facility (ORF)																			
Issue Symbol	10	8	Alphanumeric	Denotes the BX-assigned issue symbol for which the trade correction message is being generated. For details on BX symbology, please refer to Appendix B.																
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="852 913 1383 1417"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq Listed</td> </tr> <tr> <td>N</td> <td>NYSE Listed</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>Z</td> <td>BATS</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td>B</td> <td>BX Listed Issue (Pending SEC approval of listing exchange)</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq Listed	N	NYSE Listed	A	NYSE American	P	NYSE Arca	Z	BATS	V	Investors' Exchange, LLC	B	BX Listed Issue (Pending SEC approval of listing exchange)
Code	Value																			
Q	Nasdaq Listed																			
N	NYSE Listed																			
A	NYSE American																			
P	NYSE Arca																			
Z	BATS																			
V	Investors' Exchange, LLC																			
B	BX Listed Issue (Pending SEC approval of listing exchange)																			
Original Trade Control Number	19	10	Alphanumeric	Indicates the BX internal control number associated with the given trade transaction.  Please note that the Trade Control Number is specific to the BX host system reflected in the Market Center ID field.																
Original Trade Price	29	4	Price (4)	Reported price on the original trade transaction.																
Original Trade Size	33	4	Integer	Reported number of shares on the original trade transaction.																
Original Sale Condition	37	4	Alphanumeric	Indicates sale condition modifiers associated with the original																



Modifier				transaction.
Corrected Trade Control Number	41	10	Alphanumeric	Indicates the BX internal control number associated with the adjusted trade transaction.  Please note that the Trade Control Number is specific to the BX host system reflected in the Market Center ID field.
Corrected Trade Price	51	4	Price (4)	Indicates the price for the corrected trade transaction.
Corrected Trade Size	55	4	Integer	Indicates the number of shares for the corrected trade transaction.
Corrected Sale Condition Modifier	59	4	Alphanumeric	Denotes the sale condition modifiers associated with the corrected trade transaction.

### 5.7 Trade Correction for NextShares

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

Trade Correction Message										
Name	Offset	Len	Type	Value/Description						
Tracking Number	0	2	Integer	Nasdaq internal tracking number						
Time Stamp	2	6	Timestamp	Denotes the time stamp of the BX system that generated the trade correction message.						
Message Type	8	1	Alphanumeric	Z = Trade Correction						
Market Center Identifier	9	1	Alphanumeric	Denotes the BX market system that generated the trade report and cancel/error message. The allowable values are: <table border="1" data-bbox="948 1499 1383 1717"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>BX Execution System</td> </tr> <tr> <td>L</td> <td>Nasdaq/FINRA Trade Reporting Facility (TRF)</td> </tr> </tbody> </table>	Code	Value	B	BX Execution System	L	Nasdaq/FINRA Trade Reporting Facility (TRF)
Code	Value									
B	BX Execution System									
L	Nasdaq/FINRA Trade Reporting Facility (TRF)									
Issue Symbol	10	8	Alphanumeric	Denotes the assigned issue symbol of the security for which the trade correction message is						

				being generated. For details on symbology, please refer to Appendix B.				
Security Class	18	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="950 426 1385 533"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Q</td> <td>Nasdaq-Listed Issue</td> </tr> </tbody> </table>	Code	Value	Q	Nasdaq-Listed Issue
Code	Value							
Q	Nasdaq-Listed Issue							
Original Trade Control Number	19	10	Alphanumeric	Indicates the source's internal control number associated 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	29	4	Price (4)	Reported proxy price on the original trade transaction.				
Original NAV Premium/Discount Amount	33	4	Signed Price (4)	Original NAV premium or discount originally applied to the Proxy Price.  <b>Please note:</b> This is a signed (+/-) field.				
Original Trade Size	37	4	Integer	Reported number of shares on the original trade transaction.				
Original Sale Condition Modifier	41	4	Alphanumeric	Indicates sale condition modifiers associated with the original transaction.				
Corrected Trade Control Number	45	10	Alphanumeric	Indicates the internal control number associated with the adjusted trade transaction.  Please note that the Trade Control Number is specific to the BX host system reflected in the Market Center ID field.				
Corrected Trade Price	55	4	Price (4)	Indicates the price for the corrected trade transaction in proxy price.				
Corrected NAV Premium/Discount Amount	59	59	Signed Price (4)	Indicates the corrected NAV premium or discount originally applied to the Proxy Price.  <b>Please note:</b> This is a signed (+/-) field.				

Corrected Trade Size	67	4	Integer	Indicates the number of shares for the corrected trade transaction.
Corrected Sale Condition Modifier	71	4	Alphanumeric	Denotes the sale condition modifiers associated with the corrected trade transaction.

## 5.8 Administrative Messages

To help firms create a full display, BX supports the following two administrative messages: (1) Trading Action and (2) Symbol Directory.

### 5.8.1 Stock Trading Action

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

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

After the start of system hours, BX 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.

Trading Action Message						
Name	Offset	Len	Type	Value/Description		
Tracking Number	0	2	Integer	Nasdaq internal tracking number		
Time Stamp	2	6	Timestamp	Time Stamp.		
Message Type	8	1	Alphanumeric	H = Trading Action		
Issue Symbol	9	8	Alphanumeric	Denotes the security symbol for which the trading action message is being generated. For details on symbology, please refer to Appendix B.		
Security Class	17	1	Alphanumeric	Indicates the primary listing market for the issue. Allowable values are: <table border="1" data-bbox="781 1755 1333 1808"> <tr> <td>Code</td> <td>Value</td> </tr> </table>	Code	Value
Code	Value					

				<table border="1"> <tr> <td>Q</td> <td>Nasdaq</td> </tr> <tr> <td>N</td> <td>NYSE</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>Z</td> <td>BATS</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td>B</td> <td>BX-listed securities (Pending SEC approval of listing exchange)</td> </tr> </table>	Q	Nasdaq	N	NYSE	A	NYSE American	P	NYSE Arca	Z	BATS	V	Investors' Exchange, LLC	B	BX-listed securities (Pending SEC approval of listing exchange)
Q	Nasdaq																	
N	NYSE																	
A	NYSE American																	
P	NYSE Arca																	
Z	BATS																	
V	Investors' Exchange, LLC																	
B	BX-listed securities (Pending SEC approval of listing exchange)																	
Current Trading State	18	1	Alphanumeric	<p>Reflects the current trading state for the issue. The allowable values are:</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>Halted or paused on across all U.S. equity markets</td> </tr> <tr> <td>Q</td> <td>Quotation only period for cross-market halt or pause</td> </tr> <tr> <td>T</td> <td>Trading on BX</td> </tr> </tbody> </table>	Code	Value	H	Halted or paused on across all U.S. equity markets	Q	Quotation only period for cross-market halt or pause	T	Trading on BX						
Code	Value																	
H	Halted or paused on across all U.S. equity markets																	
Q	Quotation only period for cross-market halt or pause																	
T	Trading on BX																	
Reason	19	4	Alphanumeric	Reflects the Market Ops or Market Watch code for the trading state change. Refer to Appendix C for current code list.														

## 5.8.2 Reg 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 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 recent Reg SHO Restriction status value.

REG SHO RESTRICTION				
Name	Offset	Length	Value	Notes
Tracking Number	0	2	Integer	Nasdaq internal tracking number

Timestamp	2	6	Timestamp	Time at which the market participant position message was generated
Message Type	8	1	"Y"	Reg SHO Short Sale Price Test Restricted Indicator
Stock	9	8	Alphanumeric	Stock symbol right padded with spaces.
Reg SHO Action	17	1	Alphanumeric	Denotes the Reg SHO Short Sale Price Test Restriction status for the issue at the time of the message dissemination. Allowable values are:  "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

### 5.8.3 Stock Directory

At the start of each trading day, BX disseminates stock directory messages for all active symbols in the BX system.

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.

STOCK DIRECTORY												
Name	Offset	Length	Value	Notes								
Tracking Number	0	2	Integer	Nasdaq internal tracking number								
Timestamp	2	6	Timestamp	Time at which the directory message was generated. Refer to Data Types for field processing notes.								
Message Type	8	1	"R"	Stock Directory Message								
Stock	9	8	Alphanumeric	Denotes the security symbol for the issue in the Nasdaq execution system.								
Market Category	17	1	Alphanumeric	Indicates Listing market or listing market tier for the issue <table border="1" data-bbox="885 1680 1380 1900"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>Q</td> <td>Nasdaq Global Select Market<sup>SM</sup></td> </tr> <tr> <td>G</td> <td>Nasdaq Global Market<sup>SM</sup></td> </tr> </tbody> </table>	Code	Definition	<i>Nasdaq-Listed Instruments</i>		Q	Nasdaq Global Select Market <sup>SM</sup>	G	Nasdaq Global Market <sup>SM</sup>
Code	Definition											
<i>Nasdaq-Listed Instruments</i>												
Q	Nasdaq Global Select Market <sup>SM</sup>											
G	Nasdaq Global Market <sup>SM</sup>											

				<table border="1"> <tr> <td>S</td> <td>Nasdaq Capital Market<sup>®</sup></td> </tr> <tr> <td colspan="2"><i>Non-Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>N</td> <td>New York Stock Exchange (NYSE)</td> </tr> <tr> <td>A</td> <td>NYSE American</td> </tr> <tr> <td>P</td> <td>NYSE Arca</td> </tr> <tr> <td>Z</td> <td>BATS Z Exchange</td> </tr> <tr> <td>V</td> <td>Investors' Exchange, LLC</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not available</td> </tr> </table>	S	Nasdaq Capital Market <sup>®</sup>	<i>Non-Nasdaq-Listed Instruments</i>		N	New York Stock Exchange (NYSE)	A	NYSE American	P	NYSE Arca	Z	BATS Z Exchange	V	Investors' Exchange, LLC	<space>	Not available												
S	Nasdaq Capital Market <sup>®</sup>																															
<i>Non-Nasdaq-Listed Instruments</i>																																
N	New York Stock Exchange (NYSE)																															
A	NYSE American																															
P	NYSE Arca																															
Z	BATS Z Exchange																															
V	Investors' Exchange, LLC																															
<space>	Not available																															
Financial Status Indicator	18	1	Alphanumeric	<p>For Nasdaq-listed issues, this field indicates when a firm is not in compliance with Nasdaq continued listing requirements.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>D</td> <td>Deficient</td> </tr> <tr> <td>E</td> <td>Delinquent</td> </tr> <tr> <td>Q</td> <td>Bankrupt</td> </tr> <tr> <td>S</td> <td>Suspended</td> </tr> <tr> <td>G</td> <td>Deficient and Bankrupt</td> </tr> <tr> <td>H</td> <td>Deficient and Delinquent</td> </tr> <tr> <td>J</td> <td>Delinquent and Bankrupt</td> </tr> <tr> <td>K</td> <td>Deficient, Delinquent and Bankrupt</td> </tr> <tr> <td>C</td> <td>Creations and/or Redemptions Suspended for Exchange Traded Product</td> </tr> <tr> <td>N</td> <td>Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt</td> </tr> <tr> <td colspan="2"><i>Non-Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not available. Firms should refer to SIAC feeds for code if needed.</td> </tr> </tbody> </table>	Code	Definition	<i>Nasdaq-Listed Instruments</i>		D	Deficient	E	Delinquent	Q	Bankrupt	S	Suspended	G	Deficient and Bankrupt	H	Deficient and Delinquent	J	Delinquent and Bankrupt	K	Deficient, Delinquent and Bankrupt	C	Creations and/or Redemptions Suspended for Exchange Traded Product	N	Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt	<i>Non-Nasdaq-Listed Instruments</i>		<space>	Not available. Firms should refer to SIAC feeds for code if needed.
Code	Definition																															
<i>Nasdaq-Listed Instruments</i>																																
D	Deficient																															
E	Delinquent																															
Q	Bankrupt																															
S	Suspended																															
G	Deficient and Bankrupt																															
H	Deficient and Delinquent																															
J	Delinquent and Bankrupt																															
K	Deficient, Delinquent and Bankrupt																															
C	Creations and/or Redemptions Suspended for Exchange Traded Product																															
N	Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt																															
<i>Non-Nasdaq-Listed Instruments</i>																																
<space>	Not available. Firms should refer to SIAC feeds for code if needed.																															

Round Lot Size	19	4	Integer	Denotes the number of shares that represent a round lot for the issue						
Round Lots Only	23	1	Alphanumeric	Indicates if Nasdaq system limits order entry for issue <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Nasdaq system only accepts round lots orders for this security.</td> </tr> <tr> <td>N</td> <td>Nasdaq system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.</td> </tr> </tbody> </table>	Code	Definition	Y	Nasdaq system only accepts round lots orders for this security.	N	Nasdaq system does not have any order size restrictions for this security. Odd and mixed lot orders are allowed.
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	24	1	Alphanumeric	Identifies the security class for the issue as assigned by Nasdaq. See Appendix for allowable values.						
Issue Sub-Type	25	2	Alphanumeric	Identifies the security sub-type for the issue as assigned by Nasdaq. See Appendix for allowable values.						
Authenticity	27	1	Alphanumeric	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 border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Live/Production</td> </tr> <tr> <td>T</td> <td>Test</td> </tr> </tbody> </table>	Code	Definition	P	Live/Production	T	Test
Code	Definition									
P	Live/Production									
T	Test									
Short Sale Threshold Indicator	28	1	Alphanumeric	Indicates if a security is subject to mandatory close-out of short sales under SEC Rule 203(b)(3). <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Issue is restricted under SEC Rule 203(b)(3)</td> </tr> </tbody> </table>	Code	Definition	Y	Issue is restricted under SEC Rule 203(b)(3)		
Code	Definition									
Y	Issue is restricted under SEC Rule 203(b)(3)									

				N	Issue is not restricted												
				<space>	Threshold Indicator not available												
IPO Flag	29	1	Alphanumeric	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).													
				<table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td colspan="2"><i>Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>Y</td> <td>Nasdaq listed instrument is set up as a new IPO security</td> </tr> <tr> <td>N</td> <td>Nasdaq listed instrument is not set up as a new IPO security</td> </tr> <tr> <td colspan="2"><i>Non-Nasdaq-Listed Instruments</i></td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not available</td> </tr> </tbody> </table>		Code	Definition	<i>Nasdaq-Listed Instruments</i>		Y	Nasdaq listed instrument is set up as a new IPO security	N	Nasdaq listed instrument is not set up as a new IPO security	<i>Non-Nasdaq-Listed Instruments</i>		<space>	Not available
Code	Definition																
<i>Nasdaq-Listed Instruments</i>																	
Y	Nasdaq listed instrument is set up as a new IPO security																
N	Nasdaq listed instrument is not set up as a new IPO security																
<i>Non-Nasdaq-Listed Instruments</i>																	
<space>	Not available																
LULD Reference Price Tier	30	1	Alphanumeric	Indicates which Limit Up / Limit Down price band calculation parameter is to be used for the instrument. Refer to <a href="#">LULD Rule</a> for details.													
				<table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Tier 1 NMS Stocks and select ETPs</td> </tr> <tr> <td>2</td> <td>Tier 2 NMS Stocks</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not available</td> </tr> </tbody> </table>		Code	Definition	1	Tier 1 NMS Stocks and select ETPs	2	Tier 2 NMS Stocks	<space>	Not available				
Code	Definition																
1	Tier 1 NMS Stocks and select ETPs																
2	Tier 2 NMS Stocks																
<space>	Not available																
ETP Flag	31	1	Alphanumeric	Indicates whether the security is an exchange traded product (ETP):													
				<table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>Instrument is an ETP</td> </tr> <tr> <td>N</td> <td>Instrument is not an ETP</td> </tr> <tr> <td>&lt;space&gt;</td> <td>Not applicable</td> </tr> </tbody> </table>		Code	Definition	Y	Instrument is an ETP	N	Instrument is not an ETP	<space>	Not applicable				
Code	Definition																
Y	Instrument is an ETP																
N	Instrument is not an ETP																
<space>	Not applicable																
ETP Leverage Factor	32	4	Integer	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													



				<p>the ETF will increase/decrease (see Inverse) by 3.</p> <p>Note: Leverage Factor of 1 indicates the ETP is NOT leveraged.</p> <p>This field is used for LULD Tier I price band calculation purposes.</p>						
Inverse Indicator	36	1	Alphanumeric	<p>Indicates the directional relationship between the ETP and underlying index.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>ETP is an Inverse ETP</td> </tr> <tr> <td>N</td> <td>ETP is not an Inverse ETP</td> </tr> </tbody> </table> <p>Example: An ETP Leverage Factor of 3 and an Inverse value of 'Y' indicates the ETP will decrease by a value of 3.</p>	Code	Definition	Y	ETP is an Inverse ETP	N	ETP is not an Inverse ETP
Code	Definition									
Y	ETP is an Inverse ETP									
N	ETP is not an Inverse ETP									

## 5.8.4 Market-Wide Circuit Breaker (MWCB) Messaging

### 5.8.4.1 MWCB Decline Level Message

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

MWCB Decline Level Message				
Name	Offset	Length	Value	Notes
Tracking Number	0	2	Integer	Nasdaq internal tracking number
Timestamp	2	8	Timestamp	Time at which the MWCB Decline Level message was generated
Message Type	8	1	"V"	Market wide circuit breaker Decline Level Message.
Level 1	9	8	Price (8)	Denotes the MWCB Level 1 Value.
Level 2	17	8	Price (8)	Denotes the MWCB Level 2 Value.
Level 3	25	8	Price (8)	Denotes the MWCB Level 3 Value.

### 5.8.4.2 MWCB Status Message

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

MWCBC Breach Message				
Name	Offset	Length	Value	Notes
Tracking Number	0	2	Integer	Nasdaq internal tracking number
Timestamp	2	6	Timestamp	Time at which the MWCBC Breaker Status message was generated
Message Type	8	1	"W"	Market-Wide Circuit Breaker Status message
Breached Level	9	1	Alphanumeric	Denotes the MWCBC Level that was breached.  "1" = Level 1 "2" = Level 2 "3" = Level 3

### 5.8.5 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.

Operational Halt					
Name	Offset	Length	Value	Notes	
Tracking Number	0	2	Integer	Nasdaq internal tracking number	
Time Stamp	2	6	Integer	Time at which the Operational Halt message was generated. Refer to data types for field processing notes.	
Message Type	8	1	"h"	Operational Halt	
Stock	9	8	Alpha	Denotes the security symbol for the issue in the Nasdaq execution system	
Market Code	17	1	Alpha	Code	Value
				Q	Nasdaq
				B	BX
				X	PSX

Operational Halt Action	18	1	Alpha		
				Code	Value
				H	Operationally Halted on the identified Market
				T	Operational Halt has been lifted and Trading resumed

## 6 Contact Information

Questions about the BLS entitlement and display guidelines may be directed to Nasdaq Investment Intelligence at +1 301 978 5307 or [dataproductions@nasdaq.com](mailto:dataproductions@nasdaq.com).

Questions about BLS transmissions may be directed to Nasdaq Development Support Team at [devsupport@nasdaq.com](mailto:devsupport@nasdaq.com).

## 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.

BLS carries only trade transactions executed on the BX system. Since BLS 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 Statistic Calculations**

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

#### **a) Last Sale and Volume 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 BX 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, BLS includes the sale condition modifier for the BX 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.

**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
C	Cash Settlement	No	No	Yes
N	Next Day Settlement	No	No	Yes
R	Seller Settlement	No	No	Yes

#### **Sale Condition – Level 2**

For Reg NMS eligible securities, this sale condition level is used to define the trade through reason code. For the BX trading market, the allowable codes are:

Code	Value	High/Low	Last Sale	Volume
F	Intermarket Sweep Order	Yes	Yes	Yes
J	Proxy Price Settlement	Yes, if other levels do not overrule	Yes, if other levels do not overrule	Yes, if other levels do not overrule

For non-Reg NMS securities, this sale condition level is used to identify cross transactions. For the BX listed securities, the allowable codes are:

Code	Value	High/Low	Last Sale	Volume
0	Opening Print	Yes	Yes	Yes
5	Re-Opening Print	Yes	Yes	Yes
6	Closing Print	Yes	Yes	Yes
<space>	Not applicable	See other levels	See other levels	See other levels

**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. For the ORF system, the “sold” code is used to indicate that a trade occurred during normal market hours but was reported more than 90 seconds after execution. 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
T	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>	Not applicable	See other levels	See other levels	See other levels

**Sale Condition – Level 4** indicates special trading situations.

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

Since BX also reports the underlying cross execution transaction to the tape, the BX 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, BX 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
A	Acquisition	Yes	Yes	Yes
B	Bunched	Yes	Yes	Yes
D	Distribution	Yes	Yes	Yes
H	Price Variation Trade	No	No	Yes
M	BX Official Close Price	Yes for BX market center only or BX system- wide displays No for BX/ FINRA TRF only displays	Yes (for BX market center only or BX system- wide displays only)	No
o	Odd lot execution	No	No	Yes <sup>†</sup>
P	Prior Reference Price	Yes	No (except if first regular market trade of day)	Yes

Code	Value	High/Low	Last Sale	Volume
Q	BX Official Opening Price	Yes for BX market center only or BX system- wide displays No for BX/ FINRA TRF only displays	No	No
S	Split Trade	Yes	Yes	Yes
W	Weighted Average Price	No	No	Yes
X	Cross Trade – For BX-listed securities only	Yes (if sent with an eligible Level 2 modifier)	Yes (if sent with an eligible Level 2 modifier)	Yes
x	Odd Lot Cross Trade	No	No	Yes
<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***

BLS 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:

$$\text{Net Change for Issue Symbol} = \text{Current Trade Price} - \text{Adjusted Previous Close Price}$$

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 BX 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 - 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 [Ticker Symbol Convention](#) page on the Nasdaq Trader website.

## Appendix C – 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 abides by any regulatory trading halts and trading pauses instituted by the primary or listing market as appropriate. For all issue types, Nasdaq and/or BX may also halt trading for operational reasons. Nasdaq and/or BX 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 BX also attempt to provide the reason for each trading action update. For bandwidth efficiency reasons, Nasdaq and BX use a 4-byte code for the reason on its outbound data feeds.

<b>REASON CODES FOR TRADING HALT ACTIONS</b>	
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

<b>REASON CODES FOR QUOTATION/TRADING RESUMPTION ACTIONS</b>	
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 and BX-Listed Securities)
IPOE	IPO Security — Positioning Window Extension (Nasdaq and BX-Listed Securities)
<space>	Reason Not Available

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

## Appendix D - 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/Benef Int
W	Warrant

## Appendix E - Issue Sub-Type

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
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
O	Open Ended Mutual Fund
P	Privately Held Security
PP	Poison Pill
PU	Partnership Units
Q	Closed-End Funds
R	Reg-S

Nasdaq BX Last Sale (BLS)

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

## Appendix F – Documentation Version Control Log

### May 3, 2018: BLS Version 2.1

Nasdaq made the decision to fall back to the previous version number to avoid customer confusion related to different sequencing between the version number of the product specifications and the version number of the actual product code.

### March 3, 2018: BLS Version 2.2

Released a new version of Nasdaq BX Last Sale documentation to add a new Operational Halt message (Section 5.8.5) to indicate the current Operational Status of a security to the trading community.

### September 12, 2017: BLS Version 2.1

The BLS Specification was updated to reflect the following change:

- A new Market Category code in the Symbol Directory messages for the Investors' Exchange, LLC to distinguish IEX-listed issues. New market category code is "V".
- A new Security Class field in the following messages:
  - Stock Trading Action (Type H)
  - Trade Report – Non-NextShares (Type T)
  - Trade Cancel/Error – Non-NextShares (Type X)
  - Trade Correction – Non-NextShares (Type C)

### March 27, 2015: BLS Version 2.1

The BLS Specification was updated to reflect the following change:

- Increased Timestamp Length to reflect nanosecond granularity
- Addition of (Inactive) Exchange Traded Managed Funds (NextShares) changes.
- NextShares are planned to list and begin trading on Nasdaq on 10/1/2015. There are currently no plans for them to trade on BX. Should they begin trading on BX, these inactive (grayed out fields) will be activated to allow NextShares data to flow on BLS.

### December 5, 2014: BLS Version 2.00

The BLS Specification was updated to include missing Issue Sub-Type Codes (Appendix E):

AI – Alpha Indexes ETNs  
CO – Collateralized Mortgage Obligation  
EU – Equity Units  
F – HOLDERS  
IR – Interest Rate  
IW – Index Warrant  
J – Corporate Backed Trust Security  
PP – Poison Pill  
Q – Closed -End Funds  
RT – REIT  
SC – Spot Rate Closing  
SI – Spot Rate Intraday  
WC – World Currency Option  
X – Trust  
Y – Other  
Z – NA

### October 1, 2013: BLS Version 2.00

The BLS Specification was updated to reflect the following changes:  
Conversion to a binary format

### August 2, 2013: BLS Version 2.00

The BLS Specification was updated to reflect the following changes:

Nasdaq BX Last Sale (BLS)

Removed internal tracking number from multiple messages  
Inclusion of the Appendices for Issue Classification and Issue Sub-Type  
Updated offsets in the Symbol Directory Message  
Updated offsets and lengths in the MWCB Decline Level Message

**July 10, 2013: BLS Version 2.00**

The BLS Specification was updated to reflect the following changes:

- Added Enhanced Symbol Directory
- Added Market-Wide Circuit Breaker (MWCB) Messaging
  - o MWCB Decline Level Message
  - o MWCB Status Message
- Addition of an internal tracking number to multiple messages
- Addition of 'C' to the Financial Status Indicator field in the Symbol Directory Message
- Addition of 'x' Sale Condition Level 4

**April 23, 2013: BLS Version 1.1**

Nasdaq added the following Event Codes in the System Event Message:

- S - Start of System Hours: This message indicates that Nasdaq is open and ready to start accepting orders.
- E - End of System Hours: Indicates that Nasdaq is now closed and will not accept any new orders today.

**March 11, 2013: BLS Version 1.1**

Nasdaq added the following Trading Action Reason Code for LULD to reflect when the National Best Bid is below the lower price band and/or the National Best Offer is above than the upper price band and the NMS Stock is not in a Limit State.

- LUDS - Volatility Trading Pause – Straddle Condition

**January 9, 2013: BLS Version 1.1**

Nasdaq added the following Trading Action Reason Code:

- MWCO - Market Wide Circuit Breaker Halt – Carry over from previous day

**January 8, 2013: BLS Version 1.1**

Nasdaq removed the Trading Action State, "P", from the Stock Trading Message.

**November 6, 2012: BLS Version 1.1**

Released a new version of the BLS documentation to support the following changes:

- Added the "P" value to the Trading State in the Stock Trading Message.
- Modified the values for the Trading Action Reason Codes. Added the following codes:
  - o LUDP - Volatility Trading Pause
  - o MWC1 - Market Wide Circuit Breaker Halt – Level 1
  - o MWC2 - Market Wide Circuit Breaker Halt – Level 2
  - o MWC3 - Market Wide Circuit Breaker Halt – Level 3
  - o MWCQ - Market Wide Circuit Breaker Resumption
- Removed the Trading Stat, "V", related to the Volatility Guard Program.

**November 2, 2011: BLS Version 1.1**

Nasdaq added a new Market Center code, "Z", for BATS-listed securities to the Market Category and Security Class fields.

**July 14, 2010: BLS Version 1.1**

Nasdaq added a new Regulation SHO Short Sale Price Test Restricted Indicator message format to be introduced in the fourth quarter of 2010.

**July 2, 2010: BLS Version 1.1**

Nasdaq BX Last Sale (BLS)



Nasdaq added a new Trading State code value of “V” to the Stock Trading Action message to denote a Nasdaq Volatility Guard trading pause.

**May 25, 2010: BLS Version 1.1**

Nasdaq added two new Trading Action Reason code values (T5 and T7) for single security trading pause situations.

**January 26, 2010: BLS Version 1.1**

Released a new version of the BLS documentation to support the following changes:

- Increased length of the symbol field from 6 characters to 8 characters in multiple message formats in support of the equity symbology initiative.

- Added note to Appendix B to reflect that Nasdaq is reviewing its stock symbol conventions to determine if changes are needed