UTP Data Feed Services Specification

Version 4.1
Revised – Trading Action Code

Table of Contents

1 Overview 5
1.1 Introduction 6
1.2 Data Types 6
1.2.1 Table of Types 6
1.2.2 Numeric Types 6
1.2.3 Alpha Types 6
1.3 Message Table 7

2 Messages 8
2.1 Message Header 8
2.2 UTP Quotation Messages (UQDF) 9
2.2.1 FINRA ADF Market Participant Quotation Message (QM) 9
2.2.2 New Messages to Support Protected and Odd Lot Quote Messages 10
2.2.2.1 Combined Quote Message Short Form (QC) 10
2.2.2.2 Combined Quote Message Long Form (QD) 11
2.2.2.3 Odd Lot Quote Message Short Form (QA) 12
2.2.2.4 Odd Lot Quote Message Long Form (QB) 13
2.2.3 National BBO Appendage 14
2.2.3.1 National BBO Appendage Short-form 15
2.2.3.2 National BBO Appendage Long-form 15
2.2.4 FINRA ADF MPID Appendage 15
2.2.5 BOLO Appendage 16
2.2.5.1 BOLO Appendage Short Form 16
2.2.5.2 BOLO Appendage Long Form 17
2.2.5.3 BOLO Appendage MPID Form 17
2.2.6 Odd Lot Attachment Type 17
2.2.6.1 Odd Lot Price Level Attachment Short Form 18
2.2.6.2 Odd Lot Price Level Attachment Long Form 18
2.2.6.3 Odd Lot Price Level Attachment ADF MPID Form 18
2.3 Trade Messages (UTDF) 19
2.3.1 Trade Report Message Short-form (TM) 20
2.3.2 Trade Report Message Long-form (TN) 21
2.3.3 Trade Cancel/Error Message (TO) 22
2.3.4 Trade Correction Message (TP) 23
2.3.5 Prior Day As-Of Trade Message (TQ) 24
2.4 Administrative Messages 25
2.4.1 Trade and Quote Services (UQDF & UTDF) 25
2.4.1.1 General Administrative Message (AA) 25
2.4.1.2 CROSS SRO Trading Action Message (AH) 25
2.4.1.3 Market Center Trading Action Message (AK) 26
2.4.1.4 Issue Symbol Directory Messages 27
2.4.1.5 Regulation SHO Short Sale Price Test Restricted Indicator Message (AV) 29
2.4.1.6 Limit Up – Limit Down Price Band Message (AP) 29
2.4.1.7 Market Wide Circuit Breaker Decline Level Message (AC) 30
2.4.1.8 Market Wide Circuit Breaker Status Message (AD) 30
2.4.1.9 Auction Collar Message (AE) 31
2.4.2 Trade Services Only (UTDF only) 32
2.4.2.1 Closing Trade Summary Report Message (AU) 32
2.4.2.2 Total Consolidated & Market Center Volume Message (VV) 34
2.4.3 Quote Services Only (UQDF only) 35
2.4.3.1 Session Close Recap Message (AR) 35

2.5 Control Messages 35
2.5.1 Trade and Quote Services (UQDF & UTDF) 36
2.5.1.1 Start Of Day (CI) 36
2.5.1.2 End Of Day (CJ) 36
2.5.1.3 Market Session Open (CO) 37
2.5.1.4 Market Session Close (CC) 37
2.5.1.5 End of Transmissions (CZ) 38
2.5.2 Trade Services Only (UTDF only) 39
2.5.2.1 End Of Trade Reporting (CX) 39
2.5.2.2 End of Consolidated Last Sale Eligibility (CS) 39
2.5.3 Quote Services Only (UQDF only) 40
2.5.3.1 Quote Wipe-Out (CP) 40

3 Code Definitions 41
3.1 Market Center Originator ID 41
3.2 Sub-Market Center ID 42
3.3 Quote Condition Code 43
3.4 SIP Generated Update 43
3.5 LULD BBO Indicator 44
3.6 LULD National BBO Indicator 44
3.7 Retail Interest Code 44
3.8 NBBO Appendage Indicator 45
3.9 FINRA ADF MPID Appendage Indicator 45
3.10 Consolidated Price Change Indicator 46
3.11 Participant Price Change Indicator 46
3.12 Reg SHO Action Code 46
3.13 Trade Through Exempt Code 46
3.14 Sale Condition 47
3.14.1 Sale Condition Modifiers 47
3.14.2 UTP Sale Condition Matrix 48
3.14.3 Sale Condition Combination Table 50
3.14.4 Sale Condition and Trade Through Exempt Combinations 51
3.14.5 Sale Condition Notes 51
3.15 Trade Cancel Type Code 52
3.16 As-Of Action 52
3.17 Trading Action/State Indicator 52
3.18 Market Center Close Indicator 53
3.19 Special Condition 53
3.20 Authenticity 53
3.21 Issue Type 54
3.22 Issue Subtype 55
3.23 Market Tier 55
3.24 Short Sale Threshold Indicator 56
3.25 Financial Status Indicator 56
3.26 LULD Price Band Indicator 56
3.27 Market Wide Circuit Breaker Status Level Indicator 57
3.28 BOLO Appendage Indicator 57
3.29 Odd Lot Attachment Type 57
3.30 Round Lot Size 57
3.31 New Issue Indicator 57
3.32 Minimum Price Increment 58

3.33 Exchange Traded Product (ETP) Flag 58
4 Revision History 59

1 Overview

New Enhanced Symbol Directory Message:

UTP SIP will introduce an "Enhanced Symbol Directory Message" (Category A – Type F) in support of new releases in Q4 2026. This message will be sent alongside the current Symbol Directory Message (Category A – Type B).

At the request of the UTP Operating Committee and the Industry, several additional fields will begin to be provided as part of a directory spin to aid the industry in preparing for new initiatives this year.

- **SEC Mandated MPI Tick Rule:** Starting November 2027, rule changes require a minimum price indicator. The Enhanced Message will include an "mpiTick" increment for each Nasdaq Listed security. Beginning on **November 1ST, 2027**, Nasdaq Listing Market will provide UTP SIP with MPI values as designated by the SEC mandate, which will be distributed to data recipients via the Enhanced Symbol Directory Message.

- **Extended Operational Hours**: Starting December 6, 2026, the industry has agreed to begin operating UTP SIP on a new schedule that will cover 23 hours 5 days a week. Upon implementation of this new schedule, the UTP SIP will begin on Sundays at 21:00 (9:00pm EST) through Fridays at 20:00 (8:00pm EST) with a scheduled 1-hour maintenance window each evening between approximately 20:00 – 21:00 (8:00pm – 9:00 pm EST).

UTP will offer additional data in the Enhanced Symbol Directory to help the industry adapt to new operational hours.

- New Issue Indicator: initial implementation will indicate IPO status
- ETP Indicator: Indicates if this security is an exchange-traded product
- MPI Tick: Minimum Price Increment for security
- Trading State: Trading State (halted / trading) at time of message dissemination
- Halt Reason: If Security Halted, reason code is provided
- Reg SHO Action: Reg SHO state (Rule 201) at time of dissemination

At launch, UTP SIP will fill these fields with current production info (if available). When the Listing Market supports the enhancements, UTP SIP will update these fields based on their provided data.

Beginning December 6, 2026, the following values are expected to be received from the Listing Market and populated accordingly within the new Enhanced Symbol Directory Message.

- RESERVED conPrior Close: Consolidated prior day's close, adjusted if needed
- RESERVED lmPrior Close: Listing Market's official prior day's close, adjusted if needed

Please refer to section 2.4.1.4 for the new Enhanced Symbol Directory format.

1.1 Introduction

All messages sent from the SIP host to the client are sequenced, and their delivery is guaranteed by the lower level INET MoldUDP64 protocol.

1.2 Data Types

1.2.1 Table of Types

Type	Description
byte	Single digit Alpha Field
short	Big-Endian Unsigned 16-Bit Integer
int	Big-Endian Unsigned 32-Bit Integer
long	Big-Endian Unsigned 64-Bit Integer
byte[]	Fixed Width Alpha Field
varbyte[]	Variable Width Alpha Field - Length contained in the prior field within the same message

1.2.2 Numeric Types

- Unsigned big-endian (network byte order) binary values
- Numeric types include *short*, *int*, *long*
- Prices represented by *long* fields have implied 6 decimal places.
- Prices represented by *short* fields have implied 2 decimal places.
- Volume represented by *long* fields have implied 6 decimal places.
- Timestamps are *long* and represent nanoseconds since Epoch.

1.2.3 Alpha Types

- ASCII encoded
- Left justified and padded on the right with spaces
- Alpha (alphanumeric) fields include *byte*, *byte[],* and *varbyte[]*

1.3 Message Table

Category	Type	Allowed Participant	Quote Feed	Trade Feed	Message Description
FINRA ADF Market Participant Quote will continue to be supported					
Q	M	FINRA	Y	N	FINRA ADF Market Participant Quote
Quote Messages – New Messages					
Odd Lot Only supported on April 27, 2026					
Q	A	All	Y	N	Odd Lot Quote Message Short form
Q	B	All	Y	N	Odd Lot Quote Message Long form
Combined (Protected/Odd Lot) supported on April 27, 2026					
Q	C	All	Y	N	UTP Combined Quote Short-Form
Q	D	All	Y	N	UTP Combined Quote Long-Form
Trade Messages – New Messages					
Fractional Reporting supported on February 23, 2026					
T	M	All	N	Y	Trade Report Message Short-form
T	N	All	N	Y	Trade Report Message Long-form
T	O	All	N	Y	Trade Cancel/Error
T	P	All	N	Y	Trade Correction
T	Q	All	N	Y	Prior Day As-Of Trade
Administrative Messages					
A	A	All	Y	Y	General Administrative
A	H	Nasdaq	Y	Y	CROSS SRO Trading Action
A	K	All	Y	Y	Market Center Trading Action
A	B	All	Y	Y	Issue Symbol Directory
A	V	Nasdaq	Y	Y	Reg SHO Short Sale Restrict Indicator
A	P	SIP	Y	Y	Limit Up – Limit Down Price Band
A	C	SIP	Y	Y	Market Wide Circuit Breaker Decline
A	D	SIP	Y	Y	Market Wide Circuit Breaker Status
A	U	All	N	Y	Closing Trade Summary Report
V	V	All	N	Y	Total Consolidated and Market Volume
A	R	All	Y	N	Session Close Recap
A	E	Nasdaq	Y	Y	Auction Collar Message
Control Messages					
C	I	SIP	Y	Y	Start Of Day
C	J	SIP	Y	Y	End Of Day
C	O	All	Y	Y	Market Session Open
C	C	All	Y	Y	Market Session Close
C	Z	SIP	Y	Y	End Of Transmissions
C	X	All	N	Y	End Of Trade Reporting
C	S	SIP	N	Y	End Of Consolidated Last Sale Eligible
C	P	All	Y	N	Quote Wipe-Out

2 Messages

2.1 Message Header

All outbound data feed messages will precede each message specific data section with a message header.

Name	Offset	Length	Type	Notes
version	0	1	byte	Protocol Version
msgCategory	1	1	byte	Message Category
msgType	2	1	byte	Message Type
orig	3	1	byte	Market Center Originator
subMarketId	4	1	byte	Sub-Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The message header contains a one-byte alpha *version* field to allow for each message format to be updated, while still supporting previous versions of a message during transition.

The *orig* field (Market Center Originator ID) is a 1 byte, alphanumeric character that indicates the UTP participant or system that originated the message.

The *subMarketId* (Sub-Market Center Identifier) is a one-byte alphanumeric field that will be used for reporting trades originated by FINRA ADF or a FINRA Trade Reporting Facility (TRF). FINRA, as the regulator of the over-the- counter market, is responsible for reporting internalized trades of its member firms. FINRA may however, align with other UTP participant exchanges to facilitate the collection, verification, and reporting of internalized trade transactions to the UTP SIP through a trade reporting facility (TRF).

Since FINRA acts as the regulator for all over-the-counter transactions, the Market Center Originator ID field will carry the value of "D" for FINRA. When the transaction is collected as part of a joint Trade Reporting Facility (TRF), the UTP SIP will indicate in the Sub-Market Center field the TRF responsible for the trade.

The *sipTime* is the time the outbound message is produced by the SIP.

The field *timestamp1* is a participant-provided timestamp representing the number of nanoseconds since Epoch. The value is a long numeric. The SIP will simply pass through the value provided by the participant where applicable.

- **If from an Exchange:** denotes the Exchange Matching Engine Publication timestamp for a transaction. Exchanges use a clock sync methodology ensuring that timestamps are accurate within tolerances of 100 microseconds or less.
- **If from the FINRA Alternative Display Facility (ADF) and/or a FINRA Trade Reporting Facility (TRF):** denotes the time of execution that a FINRA member reports to the FINRA ADF or a FINRA TRF. FINRA shall convert times that its

members report to it in seconds or milliseconds to nanoseconds and shall provide such times to the Processor in nanoseconds since Epoch.

The *partToken* (Participant Token) is a long value. The Participant Token field is intended for UTP SIP internal use only and Data Recipients should ignore/disregard this field to the extent that it does not impact their normal data processing.

2.2 UTP Quotation Messages (UQDF)

Effective **November 3, 2025**, with the implementation of the Round Lot changes, exchanges are expected to enter Quotation Size represented in the **number of actual shares**, rounded down to the nearest multiple of the round lot size assigned to the security.

2.2.1 FINRA ADF Market Participant Quotation Message (QM)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	Q – Quote Messages (UTP Quote Feed Only)
msgType	2	1	byte	M – FINRA ADF Quotation Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	11	byte[]	Security Identifier
bidPrice	48	8	long	Bid Price
bidSize	56	4	int	Bid Size
askPrice	60	8	long	Ask Price
askSize	68	4	int	Ask Size
quoteCond	72	1	byte	Quote Condition
mpid	73	4	byte[]	FINRA Market Participant

For FINRA quotes that do not affect the NBBO or FINRA BBO a FINRA ADF Market Participant Quotation Message will be sent.

When the FINRA BBO quote does impact either the current FINRA best bid or best ask, a FINRA ADF market participant quote message (QM) may be produced.

If the FINRA ADF provides a proprietary feed of its quotation information, then the FINRA ADF will publish the time of the quotations as also published on the facility's proprietary feed. The ADF shall convert times that it reports quotations on its proprietary feed in seconds or milliseconds to nanoseconds and shall provide such times to the Processor in nanoseconds since Epoch in the *timestamp2* field.

If the FINRA ADF does not have a proprietary quotation feed, *timestamp2* will be set to 0.

With the implementation of the Odd Lot Release on April 27, 2026, the following messages were introduced and supported. These new messages replaced the previously disseminated messages, this was a "**Hot Cut**" implementation.

2.2.2 New Messages to Support Protected and Odd Lot Quote Messages

UTP SIP currently uses one of two message formats to publish UTP participant protected quotes on UQDF: short form and long form. The main differences are in the capacity of certain fields (similar to input messages); in addition, the long form provides additional ADF-specific fields not available in the short form.

With the introduction of Odd Lot Quote information, it is likely that exchanges will require the ability to update both protected quotes and odd lot quotes based on a single event in their systems. New combined quote messages will be introduced to allow the UTP SIP to publish protected quotes and potentially odd lot quote data in a single message. The odd lot quote data would be attached at the end of the outbound message or as a separate Odd Lot only message .detailed in sections below.

2.2.2.1 Combined Quote Message Short Form (QC)

For odd lot quotations, the UTP SIP will follow the protected quote precedent and offer both short form and long form varieties of output messages.

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	Q – Quote Messages (UTP Quote Feed Only)
msgType	2	1	byte	C – Short Format Combined Quotation Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	5	byte[]	Security Identifier
bidPrice	34	2	short	Protected Bid Price
bidSize	36	2	short	Protected Bid Size
askPrice	38	2	short	Protected Ask Price
askSize	40	2	short	Protected Ask Size
quoteCond	42	1	byte	Quote Condition
sipGenUpdate	43	1	byte	SIP Generated Update Flag
luldBboIndicator	44	1	byte	LULD BBO Indicator
rii	45	1	byte	Retail Interest Indicator
nbboIndicator	46	1	byte	NBBO Appendage Indicator
luldNbboIndicator	47	1	byte	LULD National BBO Indicator
boloIndicator	48	1	byte	BOLO Appendage Indicator
olAttachmentType	49	1	byte	Odd Lot Attachment Type
olAttachmentCount	50	2	short	Odd Lot Attachment Count

The location of the odd lot quote attachment depends on the presence or absence of the NBBO appendage and / or the BOLO appendage and, if present, the type of NBBO appendage and / or the type of BOLO appendage; the 'nbboIndicator' and 'boloIndcator' fields provide this information. Note that the message can contain an NBBO appendage without a BOLO appendage, a BOLO appendage without an NBBO appendage, both NBBO and BOLO appendages present, or both NBBO and BOLO attachments absent.

The SIP will use the short form of this message format only if the UTP participant's quotation meets the following criteria:

- The Issue Symbol is *5* characters or less
- Both Bid and Ask Prices have a maximum price of $*655.35*
- Both Bid and Ask Prices only use 2 decimal precisions
- Both Bid and Ask Sizes are less than *65535*
- Odd Lot Price has a maximum price of $655.35
- Odd Lot Prices only use 2 decimal precisions
- Odd Lot Sizes have a maximum size of 65535
- Quote is not a FINRA quote.

2.2.2.2 Combined Quote Message Long Form (QD)

For odd lot quotations, the UTP SIP will follow the protected quote precedent and offer both short form and long form varieties of output messages.

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	Q – Quote Messages (UTP Quote Feed Only)
msgType	2	1	byte	D – Long-format Combined Quotation Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	Long	ADF Timestamp
symbol	37	11	byte[]	Security Identifier
bidPrice	48	8	long	Protected Bid Price
bidSize	56	4	int	Protected Bid Size
askPrice	60	8	long	Protected Ask Price
askSize	68	4	int	Protected Ask Size
quoteCond	72	1	byte	Quote Condition
sipGenUpdate	73	1	byte	SIP Generated Update Flag
luldBboIndicator	74	1	byte	LULD BBO Indicator
rii	75	1	byte	Retail Interest Indicator
nbboIndicator	76	1	byte	NBBO Appendage Indicator
luldNbboIndicator	77	1	byte	LULD National BBO Indicator
finraAdfMpidIndicator	78	1	byte	FINRA ADF MPID Appendage Indicator
boloIndicator	79	1	byte	BOLO Appendage Indicator
olAttachmentType	80	1	byte	Odd Lot Attachment Type
olAttachmentCount	81	2	short	Odd Lot Attachment Count

The location of the odd lot quote attachment depends on the presence or absence of the NBBO appendage, the FINRA ADF MPID appendage and / or the BOLO appendage and, if present, the type of NBBO appendage and / or the type of BOLO appendage; the 'nbboIndicator', 'finraAdfMpidIndicator' and 'boloIndicator' fields provide this information.

The order of precedence following the base message fields is:
1. NBBO appendage
2. ADF MPID appendage
3. BOLO appendage
4. Odd Lot attachment

For odd lot only quotations, the UTP SIP will follow the combined protected quote precedent and offer both short form and long form varieties of output messages.

2.2.2.3 Odd Lot Quote Message Short Form (QA)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	Q – Quote Messages (UTP Quote Feed Only)
msgType	2	1	byte	A – Short Format Odd Lot Quotation Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	5	byte[]	Security Identifier
sipGenUpdate	34	1	byte	SIP Generated Update Flag
boloIndicator	35	1	byte	BOLO Appendage Indicator
olAttachmentType	36	1	byte	Odd Lot Attachment Type
olAttachmentCount	37	2	short	Odd Lot Attachment Count

The location of the odd lot quote attachment depends on the presence or absence of the BOLO appendage and, if present, the type of BOLO appendage; the 'boloIndcator' field provides this information:

0 or 1: the odd lot quote attachment immediately follows the 'olAttachmentCount' field
2: the odd lot quote attachment immediately follows the short-form BOLO appendage
3: the odd lot quote attachment immediately follows the long-form BOLO appendage
5: the odd lot quote attachment immediately follows the MPID-form BOLO appendage

When present, the BOLO appendage immediately follows the 'olAttachmentCount' field.

The SIP will use the short form of this message format only if the UTP participant's quotation meets the following criteria:

- The Issue Symbol is *5* characters or less

2.2.2.4 Odd Lot Quote Message Long Form (QB)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	Q – Quote Messages (UTP Quote Feed Only)
msgType	2	1	byte	B – Long Format Odd Lot Quotation Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	ADF Timestamp
symbol	37	11	byte[]	Security Identifier
sipGenUpdate	48	1	byte	SIP Generated Update Flag
boloIndicator	49	1	byte	BOLO Appendage Indicator
olAttachmentType	50	1	byte	Odd Lot Attachment Type
olAttachmentCount	51	2	short	Odd Lot Attachment Count

The location of the odd lot quote attachment depends on the presence or absence of the BOLO appendage and, if present, the type of BOLO appendage; the 'boloIndcator' field provides this information:

0 or 1: the odd lot quote attachment immediately follows the 'olAttachmentCount' field
2: the odd lot quote attachment immediately follows the short-form BOLO appendage
3: the odd lot quote attachment immediately follows the long-form BOLO appendage
5: the odd lot quote attachment immediately follows the MPID-form BOLO appendage

When present, the BOLO appendage immediately follows the 'olAttachmentCount' field.

Message Appendages and Message Attachments

In addition to the new message types, the UTP SIP has defined new types of message appendages and message attachments to support odd lot quotes. The following section provides the details for all the supported appendages and attachments.

2.2.3 National BBO Appendage

If the UTP participant's quotation impacts the national best bid and offer of the issue, a National BBO Appendage will be added to the original short- or long-form message. The appendage will include all relevant information concerning the Best Bid and Best Ask of the issue and the originating market center.

Within the Quotation message, the National BBO Indicator will denote the type of appendage to be included. The allowable National BBO Indicator values are as follows:

Code	Value
0	**No National BBO Change** – The UTP participant's quote does not affect the National BBO. Vendors should continue to show the existing National BBO. No appendage is required.
1	**No National BBO Can be Calculated** – The National BBO cannot be calculated therefore vendors should show National BBO fields as blank. No appendage is required.
2	**Short Form National BBO Appendage Attached** – A new National BBO was generated as a result of the UTP participant's quote update and the new National BBO information is contained in the attached short form appendage. See criteria for the short form appendage below.
3	**Long Form National BBO Appendage Attached** – A new National BBO was generated as a result of the UTP participant's quote update and the new information is contained in the attached long form appendage.
4	**Quote Contains All National BBO Information** – Current UTP participant's quote is itself the National BBO. Vendors should update National BBO to reflect this new quote and single market center. (National Best Bid Market Center and National Best Ask Market Center fields should be updated to reflect the Market Center Originator ID value in the UQDF message header.) No appendage is required.

To economize on bandwidth, the simplest form of the National BBO Appendage will be used whenever possible.

2.2.3.1 National BBO Appendage Short-form

Name	Offset	Length	Type	Notes
nbboQuoteCond	0	1	byte	NBBO Quote Condition
nbBidMarketCenter	1	1	byte	National Best Bid Market Center
nbBidPrice	2	2	short	National Best Bid Price
nbBidSize	4	2	short	National Best Bid Size
nbAskMarketCenter	6	1	byte	National Best Ask Market Center
nbAskPrice	7	2	short	National Best Ask Price
nbAskSize	9	2	short	National Best Ask Size

2.2.3.2 National BBO Appendage Long-form

Name	Offset	Length	Type	Notes
nbboQuoteCond	0	1	byte	NBBO Quote Condition
nbBidMarketCenter	1	1	byte	National Best Bid Market Center
nbBidPrice	2	8	long	National Best Bid Price
nbBidSize	10	4	int	National Best Bid Size
nbAskMarketCenter	14	1	byte	National Best Ask Market Center
nbAskPrice	15	8	long	National Best Ask Price
nbAskSize	23	4	int	National Best Ask Size

2.2.4 FINRA ADF MPID Appendage

If the FINRA ADF participant's BBO quotation impacts their single participant at either the Bid or Ask side of their market for the issue, a FINRA ADF MPID Appendage will be added to the original short- or long-form message. This appendage will include the ADF's single participant for its best bid and size and/or the ADF's single participant for its best ask and size.

Within the Quotation message, the FINRA ADF MPID Indicator will denote the type of appendage to be included. The allowable values are as follows:

Code	Value
0	**No ADF MPID changes –** Current ADF quote does not affect the FINRA MPID. Vendors should continue to show the existing FINRA MPID(s). No appendage required.
1	**No ADF MPID exists –** There is no calculation of the FINRA MPID(s). Vendors should show the FINRA MPID fields as blank. No appendage is required.
2	**ADF MPID(s) attached -** FINRA MPID was generated and the information is contained in the attached appendage.
<space>	**Not applicable** - Quotation originates from a UTP participant other than the FINRA. Vendors should continue to show the existing FINRA MPID(s). No appendage is required.

The following appendage will be added to the UTP Quote message when necessary:

Name	Offset	Length	Type	Notes
bidAdfMpid	0	4	byte[]	Bid ADF MPID
askAdfMpid	4	4	byte[]	Ask ADF MPID

2.2.5 BOLO Appendage

Best Odd Lot Order (BOLO): The UTP SIP is required to calculate and publish the Best Odd Lot Order (BOLO). The BOLO price is the best odd lot quote price superior to the protected NBBO price. BOLO changes will be reflected on the quote data feed message in the form of the new BOLO appendage when necessary.

The BOLO Indicator will denote the type of appendage to be included. The allowable BOLO Indicator values are as follows:

Code	Value
0	**No BOLO Change** – The UTP participant's quote does not affect the BOLO. Vendors should continue to show the existing BOLO. No appendage is required.
1	**No BOLO Can be Calculated** – The BOLO cannot be calculated therefore vendors should show BOLO fields as blank. No appendage is required.
2	**Short Form BOLO Appendage Attached** – A new BOLO was generated as a result of the UTP participant's quote update and the new BOLO information is contained in the attached short form appendage. See criteria for the short form appendage below.
3	**Long Form BOLO Appendage Attached** – A new BOLO was generated as a result of the UTP participant's quote update and the new information is contained in the attached long form appendage.
5	**MPID Form BOLO Appendage Attached** – A new BOLO was generated as a result in FINRA ADF participant update and the new information is contained in the attached MPID BOLO appendage.

To economize on bandwidth, the simplest form of the BOLO Appendage will be used whenever possible.

2.2.5.1 BOLO Appendage Short Form

Append to odd lot or combined quote message to provide BOLO information using short format

Name	Offset	Length	Type	Notes
olBidMarketCenter	0	1	byte	BOLO Best Bid Market Center
olBidPrice	1	2	short	BOLO Bid Price
olBidSize	3	2	short	BOLO Bid Size
olAskMarketCenter	5	1	byte	BOLO Best Ask Market Center
olAskPrice	6	2	short	BOLO Ask Price
olAskSize	8	2	short	BOLO Ask Size

2.2.5.2 BOLO Appendage Long Form

Append to odd lot or combined quote message to provide BOLO information using long format

Name	Offset	Length	Type	Notes
olBidMarketCenter	0	1	byte	BOLO Best Bid Market Center
olBidPrice	1	8	long	BOLO Bid Price
olBidSize	9	2	short	BOLO Bid Size
olAskMarketCenter	11	1	byte	BOLO Best Ask Market Center
olAskPrice	12	8	long	BOLO Ask Price
olAskSize	20	2	short	BOLO Ask Size

2.2.5.3 BOLO Appendage MPID Form

Append to odd lot or combined quote message to provide BOLO information with ADF MPID attribution

Name	Offset	Length	Type	Notes
olBidMarketCenter	0	1	byte	BOLO Best Bid Market Center
olBidPrice	1	8	long	BOLO Bid Price
olBidSize	9	2	short	BOLO Bid Size
olAskMarketCenter	11	1	byte	BOLO Best Ask Market Center
olAskPrice	12	8	long	BOLO Ask Price
olAskSize	20	2	short	BOLO Ask Size
olBidMpid	22	4	byte[]	BOLO Best Bid Market Participant Identifier
olAskMpid	26	4	byte[]	BOLO Best Ask Market Participant Identifier

2.2.6 Odd Lot Attachment Type

The UTP SIP is required to receive and publish potentially multiple odd lot quote price levels per participant per security.

The number of odd lot price levels included in the attachment will be specified via Odd Lot Attachment count while the Odd Lot Attachment Type Indicator within the core message will denote the type of attachment(s) to be included. The allowable Odd Lot Attachment Type Indicator values are as follows:

Code	Value
0	**No Odd Lot Price Levels attached** – The UTP participant's quote does not contain any odd lot price level(s). No attachment required.
2	**Short Form Odd Lot Price Levels attached** – The UTP participant's quote does contain odd lot price level(s). See criteria for the short form Odd Lot attachment below.
3	**Long Form Odd Lot Price Levels attached** – The UTP participant's quote does contain odd lot price level(s). See criteria for the long form Odd Lot attachment below.
5	**MPID Form Odd Lot Price Levels Attached** – An update results in requiring notification of a FINRA ADF participant update within a price level. See criteria for the ADF MPID Odd Lot attachment below.

To economize on bandwidth, the simplest form of the Odd Lot Appendage will be used whenever possible.

2.2.6.1 Odd Lot Price Level Attachment Short Form

Provides one or more odd lot price levels as an attachment to the odd lot or combined quote message using short format

Name	Offset	Length	Type	Notes
olMCID	0	1	byte	Market Center ID
olSide	1	1	byte	Side
olPrice	2	2	short	Odd Lot Price
olSize	4	2	short	Shares at Odd Lot Price

2.2.6.2 Odd Lot Price Level Attachment Long Form

Provides one or more odd lot price levels as an attachment to the odd lot or combined quote message using long format

Name	Offset	Length	Type	Notes
olMCID	0	1	byte	Market Center ID
olSide	1	1	byte	Side
olPrice	2	8	long	Odd Lot Price
olSize	10	2	short	Shares at Odd Lot Price

2.2.6.3 Odd Lot Price Level Attachment ADF MPID Form

Provides one or more odd lot price levels as an attachment to the odd lot or combined quote message including ADF MPID attribution.

Name	Offset	Length	Type	Notes
olMCID	0	1	byte	Market Center ID
olSide	1	1	byte	Side
olPrice	2	8	long	Odd Lot Price
olSize	10	2	short	Shares at Odd Lot Price
olMpid	12	4	byte[]	ADF Market Participant Identifier (blank if Market Center is not “D”)

The allowable values for **SIDE** will be as follows:

Code	Value
B	Represents an update for the Bid Side
A	Represents an update for the Ask Side

When a participant submits a replacement of their existing OL price, they should submit the removal first then add the new price.

To remove a price level, the participant submits OL attachment with the **size of zero** and the **price of the level** they wish removed.

Side = B
Price = 10.05
Size = 0

2.3 Trade Messages (UTDF)

The following message formats are used to disseminate Trade Reports, Trade Corrections, and Trade Cancellations/Errors for NASDAQ listed securities.

If the sale condition code is equal to "R" (Seller), the Seller Sale's Day (*saleDays*) field will reflect the number of days that may elapse before delivery of the stock. If the sale condition is not "R", it will be zero filled.

Timestamp2 will be used by the FINRA ADF and/or a FINRA TRF to provided timestamp representing the number of nanoseconds since Epoch.

• **If from an Exchange:** *timestamp2* should be set to 0

• **If from the FINRA Alternative Display Facility (ADF) or a FINRA Trade Reporting Facility (TRF):**

If the FINRA ADF or a FINRA TRF provides a proprietary feed of trades reported by the facility, then the FINRA facility will publish the time of the transmission as also published on the facility's proprietary trade feed. The TRF or ADF shall convert times that it reports trades on its proprietary trade feed in seconds or milliseconds to nanoseconds and shall provide such times to the Processor in nanoseconds since Epoch.

If the FINRA ADF or the FINRA TRF facility does not have a proprietary trade feed, *timestamp2* should be set to 0.

The *tradeId* is an identifier for tracking trades. Any Cancel/Error or Correction messages will include the trade Id of the trade being canceled or corrected in the *origTradeId* field. The *tradeId* is unique per participant per sub market center per symbol per session.

The tuple *orig, subMarketId, symbol, tradeId* will be unique within a trading session.

2.3.1 Trade Report Message Short-form (TM)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	T – Trade Messages (UTP Trade Feed Only)
msgType	2	1	byte	M – Fractional Short-format Trade Report Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	5	byte[]	Security Identifier
tradeId	42	8	long	Trade Id
price	50	2	short	Trade Price
volume	52	8	long	Trade Volume (implied 6 decimals)
cond	60	4	byte[]	Sale Condition
tradeThrExempt	64	1	byte	Trade Through Exempt Flag
consPriceChangeInd	65	1	byte	Consolidated Price Change Indicator
partPriceChangeInd	66	1	byte	Participant Price Change Indicator
Total Length	**67**			

The SIP will use the short form of trade report message format only if the UTP participant's transaction meets the following criteria:

- The Issue Symbol is *5* characters or less
- Trade price has a maximum price of $*655.35*
- Trade price only uses 2 decimal precision
- Sale Condition modifier is not equal to "R" (Seller)

2.3.2 Trade Report Message Long-form (TN)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	T – Trade Messages (UTP Trade Feed Only)
msgType	2	1	byte	N – Fractional Long-format Trade Report Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	11	byte[]	Security Identifier
tradeId	48	8	long	Trade Id
price	56	8	long	Trade Price
volume	64	8	long	Trade Volume (implied 6 decimals)
trcond	72	4	byte[]	Sale Condition
tradeThrExempt	76	1	byte	Trade Through Exempt Flag
saleDays	77	2	short	Seller's Sale Days
consPriceChangeInd	79	1	byte	Consolidated Price Change Indicator
partPriceChangeInd	80	1	byte	Participant Price Change Indicator
Total Length	**81**			

If the sale condition code is equal to "R" (Seller), the *saleDays* field will reflect the number of days that may elapse before delivery of the stock. If the sale condition is not "R", this field will be zero filled.

2.3.3 Trade Cancel/Error Message (TO)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	T – Trade Messages (UTP Trade Feed Only)
msgType	2	1	byte	O – Fractional Trade Cancel/Error Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	11	byte[]	Security Identifier
cancelType	48	1	byte	Trade Cancellation Type
origTradeId	49	8	long	Original Trade Id
origPrice	57	8	long	Original Trade Price
origVolume	65	8	long	Original Volume (implied 6 decimals)
origCond	73	4	byte[]	Original Sale Condition
origTradeThrExempt	77	1	byte	Original Trade Through Exempt Flag
origSaleDays	78	2	short	Original Seller's Sale Days
consHighPrice	80	8	long	Consolidated High Price
consLowPrice	88	8	long	Consolidated Low Price
consLastPrice	96	8	long	Consolidated Last Price
consVolume	104	8	long	Consolidated Volume (implied 6 decimals)
consPriceChangeInd	112	1	byte	Consolidated Price Change Indicator
consLastPriceOrig	113	1	byte	Market Center Originator ID
partHighPrice	114	8	long	Market Participant High Price
partLowPrice	122	8	long	Market Participant Low Price
partLastPrice	130	8	long	Market Participant Last Price
partVolume	138	8	long	Market Participant Volume (implied 6 decimals)
Total Length	**146**			

2.3.4 Trade Correction Message (TP)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	T – Trade Messages (UTP Trade Feed Only)
msgType	2	1	byte	P – Fractional Trade Correction Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	11	byte[]	Security Identifier
origTradeId	48	8	long	Original Trade Id
origPrice	56	8	long	Original Trade Price
origVolume	64	8	long	Original Volume (implied 6 decimals)
origCond	72	4	byte[]	Original Sale Condition
origTradeThrExempt	76	1	byte	Original Trade Through Exempt Flag
origSaleDays	77	2	short	Original Seller's Sale Days
corrTradeId	79	8	long	Corrected Trade Id
corrPrice	87	8	long	Corrected Trade Price
corrVolume	95	8	long	Corrected Volume (implied 6 decimals)
corrCond	103	4	byte[]	Corrected Sale Condition
corrTradeThrExempt	107	1	byte	Corrected Trade Through Exempt Flag
corrSaleDays	108	2	short	Corrected Seller's Sale Days
consHighPrice	110	8	long	Consolidated High Price
consLowPrice	118	8	long	Consolidated Low Price
consLastPrice	126	8	long	Consolidated Last Price in
consVolume	134	8	long	Consolidated Volume (implied 6 decimals)
consPriceChangeInd	142	1	byte	Consolidated Price Change Indicator
consLastPriceOrig	143	1	byte	Market Center Originator ID
partHighPrice	144	8	long	Market Participant High Price
partLowPrice	152	8	long	Market Participant Low Price
partLastPrice	160	8	long	Market Participant Last Price
partVolume	168	8	long	Market Participant Volume (implied 6 decimals)
Total Length	**176**			

2.3.5 Prior Day As-Of Trade Message (TQ)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	T – Trade Messages (UTP Trade Feed Only)
msgType	2	1	byte	Q – Fractional As-Of Trade Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
timestamp2	29	8	long	FINRA Timestamp
symbol	37	11	byte[]	Security Identifier
tradeId	48	8	long	Trade Id
price	56	8	long	Trade Price
volume	64	8	long	Trade Volume (implied 6 decimals)
cond	72	4	byte[]	Sale Condition
tradeThrExempt	76	1	byte	Trade Through Exempt Flag
saleDays	77	2	short	Seller's Sale Days
asOfAction	79	1	byte	As-Of Action
priorTime	80	8	long	Timestamp of Trade
Total Length	**88**			

The *tradeId* for as-of trades is a pass-through value sent by the Participant. There is no guarantee of uniqueness and may be 0 if the Participant chooses not to include a *tradeId*.

2.4 Administrative Messages

2.4.1 Trade and Quote Services (UQDF & UTDF)

2.4.1.1 General Administrative Message (AA)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	A – General Administrative Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
textLen	29	2	short	Text Length
text	31	var	varbyte[]	Text

2.4.1.2 CROSS SRO Trading Action Message (AH)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	H – Trading Action Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
action	40	1	byte	Trading Action Code
actionSequence	41	4	int	Trading Action Sequence Number
actionTime	45	8	long	Timestamp of when the action occurred.
Reason	53	6	byte[]	Reason for the Trading Action

This fixed format message will be used to inform subscribers of trading actions – such as halts, pauses, quotation resumptions and trading resumptions – impacting the trading of a NASDAQ-listed issue across all UTP participants.

The *actionSequence* field is intended for UTP SIP internal use only and Data Recipients should ignore/disregard this field to the extent that it does not impact their normal data processing.

2.4.1.3 Market Center Trading Action Message (AK)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	K – Market Center Trading Action Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
action	40	1	byte	Trading Action Code
actionTime	41	8	long	Timestamp of when the action occurred.
mcId	49	1	byte	Market Center Identifier

This fixed format message will inform UTP data feed subscribers of when a UTP participant invokes or releases a market center-specific trading halt for a NASDAQ-listed security. In contrast to the Cross SRO Trading Action (Category A – Type H) data format, the Market Center Trading Action (Category A – Type K) message impacts trading activity only for the UTP participant identified in the Market Center (MC) ID field.

Other UTP participants may continue to quote and trade the issue as normal. Because the issue remains active on other markets, the UTP participant will remove their quotes or mark their quotes as non-NBBO eligible during the market center-specific trading halt.

2.4.1.4 Issue Symbol Directory Messages

UTP SIP will introduce an "Enhanced Symbol Directory Message" (Category A – Type F) in support of new releases in Q4 2026. This message will be sent alongside the current Symbol Directory Message (Category A – Type B).

2.4.1.4.1 Current Symbol Directory Message (AB)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	B – Issue Symbol Directory Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
oldSymbol	40	11	byte[]	Old Security Identifier
name	51	30	byte[]	Issue Name
type	81	1	byte	Issue Type
subtype	82	2	byte[]	Issue Subtype
mktTier	84	1	byte	Market Tier
auth	85	1	byte	Authenticity
sstInd	86	1	byte	Short Sale Threshold Indicator
roundLotSz	87	2	short	Round Lot Size
finStatInd	89	1	byte	Financial Status Indicator

The *roundLotSz* indicates the number of shares that make up a round lot for the given security. Allowable values are 00001 to 99999. For most NASDAQ issues, the round lot size is 100 shares.

UTP intends to retire the existing Issue Symbol Directory Message (AB) sometime in the first quarter of 2027. A UTP Vendor notice will be issued prior to its retirement.

2.4.1.4.2 Enhanced Symbol Directory Message (AF)

Enhanced Symbol Directory Message (AF)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	**F** – Issue Symbol Directory Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
oldSymbol	40	11	byte[]	Old Security Identifier
name	51	30	byte[]	Issue Name
type	81	1	byte	Issue Type
subtype	82	2	byte[]	Issue Subtype
mktTier	84	1	byte	Market Tier
auth	85	1	byte	Authenticity
sstInd	86	1	byte	Short Sale Threshold Indicator "Rule 203(b)(3)"
roundLotSz	87	2	short	Round Lot Size
finStatInd	89	1	byte	Financial Status Indicator
etpFlag	90	1	byte	Exchange Traded Product (ETP) Indicator
newIssueInd	91	1	byte	New Issue Indicator
mpiTick	92	1	byte	MPI Tick Rule
tradingState	93	1	byte	Trading State (halted / trading)
haltReason	94	6	byte []	Reason for Halt
regShoaction	100	1	byte	Reg SHO Action "Rule 201"
conPriorClose	101	8	long	RESERVED Consolidated Prior Day Close Price
lmPriorOCP	109	8	long	RESERVED Listing Market Official Prior Day Close Price

The *roundLotSz* indicates the number of shares that make up a round lot for the given security. Allowable values are 00001 to 99999.

Note: All symbols will have Penny "mpiTick" until Nov 2027, when Half Penny MPI is introduced, as mandated by the SEC.

The Enhanced Symbol Directory message is **not** republished if the Trading Action or Reg SHO Action of a symbol changes intraday. Data recipients **must continue** to process the following, existing messages, for intraday updates to these data elements.

- Cross SRO Trading Action Message (Category A – Tye H)
- Reg SHO Short Sale Price Test Restricted Indicator (Category A – Type V)

UTP intends to retire the existing Issue Symbol Directory Message (AB) sometime in the first quarter of 2027. A UTP Vendor notice will be issued prior to its retirement.

2.4.1.5 Regulation SHO Short Sale Price Test Restricted Indicator Message (AV)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	V – Reg SHO Restriction Indicator Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
regShoAction	40	1	byte	Reg SHO Action

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, the UTP SIP will introduce a Reg SHO Short Sale Price Test Restricted Indicator. As part of the pre-opening spin process, NASDAQ, as the primary listing market, will generate Reg SHO Short Sale Price Test Restricted Indicator messages indicating the Rule 201 status for all NASDAQ-listed securities. NASDAQ will also send the Reg SHO Short Sale Price Test Restricted Indicator message in the event of an intraday status change.

2.4.1.6 Limit Up – Limit Down Price Band Message (AP)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	P – LULD Price Band Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
luldPriceBandInd	40	1	byte	LULD Price Band Indicator
luldTime	41	8	long	LULD Price Band Effective Time
limitDownPrice	49	8	long	Limit Down
limitUpPrice	57	8	long	Limit Up

The Securities and Exchange Commission (SEC) adopted a Plan, to be implemented in two phases, to provide for a market-wide Limit Up–Limit Down (LULD) mechanism intended to address extraordinary market volatility in NMS Stocks. The new LULD procedures are designed to prevent trades in individual NMS Stocks from occurring outside of specified Upper and Lower Limit Price Bands.

2.4.1.7 Market Wide Circuit Breaker Decline Level Message (AC)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	C – MWCB Decline Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
mwcbLevel1	29	8	long	MWCB Level 1
mwcbLevel2	37	8	long	MWCB Level 2
mwcbLevel3	45	8	long	MWCB Level 3

A Market Wide Circuit Breaker (MWCB) Level message will inform participants and the UTP data recipients what the daily MWCB breach points are set to for the current trading day.

The MWCB Levels will generally remain in effect for the remainder of the current trading day and will be reset each trading day based on the prior day's closing value of the S&P 500 index. However, there can be situations where the breach levels were set due to erroneous activity. In this case the breach levels may reset and disseminate the MWCB breach levels again. Participants and UTP data recipients should process and use the most recently disseminated levels for that trading day.

2.4.1.8 Market Wide Circuit Breaker Status Message (AD)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	D – MWCB Status Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
mwcbStatus	29	1	byte	MWCB Status Level Indicator

A Market Wide Circuit Breaker (MWCB) Status message will inform participants and the UTP data recipients when a MWCB has breached one of the established levels.
The MWCB Status message will be generated **once** for each level if the S&P 500 declines past the established breaker decline level for the trading day.

2.4.1.9 Auction Collar Message (AE)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	E – Auction Collar Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte []	Security Identifier
actionSequence	40	4	int	Trading Action Sequence Number
CollarReferencePrice	44	8	long	Reference price used to set collar
CollarUpPrice	52	8	long	Collar Up Price
CollarDownPrice	60	8	long	Collar Down Price
CollarExtension	68	1	byte	Collar Extension Indicator

Primary markets using an automated reopening will calculate new Auction Collars, in compliance with rules around prices for re-opening, when applicable and publish this new Auction Collar Message (Category A – Type E) to SIP.

The initial Auction Collars will be published immediately after the LULD Trading Pause.

Subsequent Auction Collars will be published approximately every five minutes, while in an LULD Trading Pause, until the primary market is able to reopen.

The collar extension indicator will be used to reflect when a new collar has been published. The first collar extension, at the time of the pause, will be set to zero indicating the first collar message and will increment by 1 for each new message received by the primary market and disseminated via the SIP, during the pause event. Range for this attribute is 0 to 255 binary values.

Should a security have multiple pause events during the trading day, at every new pause, the collar extension indicator is reset to zero by the primary market.

2.4.2 Trade Services Only (UTDF only)

2.4.2.1 Closing Trade Summary Report Message (AU)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	U – Fractional Closing Trade Summary Report Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
dailyConsHighPrice	40	8	long	Daily Consolidated High Price
dailyConsLowPrice	48	8	long	Daily Consolidated Low Price
dailyConsClosePrice	56	8	long	Daily Consolidated Closing Price
consLastPriceOrig	64	1	byte	Market Center Originator ID
consVolume	65	8	long	Consolidated Volume (implied 6 decimals)
tradeActionInd	73	1	byte	Trading Action/State Indicator
numMktCenterAttch	74	2	short	Number of Market Center Attachments

Attachment(s) – Market Center Closing Price & Volume Summary

Name	Offset	Length	Type	Notes
mcId	0	1	byte	Market Center Identifier
mcClosingPrice	1	8	long	Market Center Closing Price
mcVolume	9	8	long	Market Center Volume (implied 6 decimals)
mcCloseInd	17	1	byte	Market Center Close Indicator
partHighPrice	18	8	long	Market Participant High Price
partLowPrice	26	8	long	Market Participant Low Price

The Closing Trade Summary Report will be disseminated three times daily at the following times:

- The initial report will be disseminated at approximately 4:30 p.m., ET, and will reflect the closing price for UTP participants who choose to have their official closing price calculated in time for this report as well as the preliminary closing prices for the consolidated market and other UTP participants in NASDAQ-listed issues.
- This second report will be disseminated at 5:20 p.m., ET, and will reflect the closing price for UTP participants who choose to have their official closing price calculated in time for this report as well as the preliminary closing prices for the consolidated market and other UTP participants in NASDAQ-listed issues.

- The final instance of the Closing Trade Summary report will be generated upon the End of Trading Reporting event. This report will contain the final closing price and volume data for the consolidated market as well as all UTP participants in a NASDAQ-listed issue.

If the market center provides an official closing price value, the UTP SIP will populate the "Market Center Closing Price Indicator" value in the message attachment with the value of "M". If the market center does not provide an official closing price value, the message will reflect the final last sale eligible trade received by the UTP SIP from the market center for the given issue.

For all instances of the Closing Trade Summary Report, the message shall consist of a consolidated trade summary followed by any associated market center attachment(s). Please note that firms should process all three instances of the Closing Trade Summary Report for the most up-to-date and accurate information.

Note: Under certain market event circumstances, the UTP SIP reserves the right to amend the time of dissemination for any one or all of the closing trade summary reports without prior notification.

2.4.2.2 Total Consolidated & Market Center Volume Message (VV)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	V – Administrative Messages
msgType	2	1	byte	V – Fractional Total Consolidated and Market Center Volume Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
totalConsVolume	29	8	long	Total Consolidated Volume (implied 6 decimals)
numMktCenterAttch	37	2	short	Number of Market Center Attachments

Attachment(s) – Market Center Volume

Name	Offset	Length	Type	Notes
mcId	0	1	byte	Market Center Identifier
mcVolume	1	8	long	Current Market Center Volume (implied 6 decimals)

The Total Consolidated & Market Center Volume message will be used to relay intra- day values for the current total cumulative consolidated share volume and each active market center current cumulative volume activity as reported by all UTP participants in all NASDAQ issues. The consolidated volume report reflects trading activity up to the time that the message was generated. Only market centers with positive volume will be disseminated for a given time interval.

The Total Consolidated Volume Report message format consists of two parts:

- **Message Label:** This section provides the current total cumulative consolidated share volume. It also denotes how many market center attachments are being relayed as part of this message.

- **Message Attachment(s):** This section provides the market center identifier and the current market center volume for the given time interval.

2.4.3 Quote Services Only (UQDF only)

2.4.3.1 Session Close Recap Message (AR)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	A – Administrative Messages
msgType	2	1	byte	R – Session Close Recap Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token
symbol	29	11	byte[]	Security Identifier
nbBidMarketCtr	40	1	byte	National Best Bid Market Center
nbBidPrice	41	8	long	National Best Bid Price
nbBidSize	49	8	long	National Best Bid Size
nbAskMarketCtr	57	1	byte	National Best Ask Market Center
nbAskPrice	58	8	long	National Best Ask Price
nbAskSize	66	8	long	National Best Ask Size
specialCond	74	1	byte	Special Condition
numMktCenterAttch	75	2	short	Number of Market Center Attachments

Attachment(s) – Market Center Close Recap

Name	Offset	Length	Type	Notes
mcId	0	1	byte	Market Center Identifier
bidPrice	1	8	long	Market Center Bid Price
bidSize	9	8	long	Market Center Bid Size
askPrice	17	8	long	Market Center Ask Price
askSize	25	8	long	Market Center Ask Size

At the request of the market data community, the UTP SIP generates a Session Close Recap message that reflects the National BBO quotation information at the close of the normal market session. To generate this recap, the UTP SIP takes a snapshot of the National BBO at the time that the Market Close event is generated. The UTP SIP also includes as attachments most recent quote update from each UTP participant at the time of the snapshot event.

Please note that the UQDF Session Close Recap message is intended for informational purposes only. The UTP Operating Plan does not recognize an official NBBO closing value at this time.

The Session Close Recap Message is comprised of two sections. The label contains the National BBO at the market close. The attachment(s) reflects the UTP participant BBO quotation(s) at the market close.

2.5 Control Messages

Control Messages are utilized to inform the user(s) of various conditions and events during the trading day.

2.5.1 Trade and Quote Services (UQDF & UTDF)

2.5.1.1 Start Of Day (CI)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	I – Start of Day Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The Start of Day control message signifies the beginning of each operational cycle for SIP Processing. Each day, the Start of Day control message will be sent to inform SIP subscribers that all subsequent data transmitted will be real-time updates and should be treated accordingly.

2.5.1.2 End Of Day (CJ)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	J – End of Day Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The End of Day control message signals the end of active message dissemination for the UTP SIP operational cycle. The system shall generate and disseminate the End of Day control message upon receipt of the appropriate inbound control messages from all inbound sources.

2.5.1.3 Market Session Open (CO)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	O – Market Session Open Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The Market Session Open Control Message signifies the opening of market systems for the session indicated in the Message Header. This message signifies the beginning of the Normal Market Session.

Please note that each UTP participant may choose to provide a Market Session Open control message.

2.5.1.4 Market Session Close (CC)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	C –Market Session Close Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The Session Close Control Message signals the closing of market systems for the session indicated in the Message Header. Upon receipt of this message, Vendors should close the appropriate market center security records in their files. Please note that each UTP participant may choose to provide a Market Session Close control message.

2.5.1.5 End of Transmissions (CZ)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	Z – End of Transmissions Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The End of Transmissions Message signals that there will be no further transmissions of data sent through the UTP SIP line. This message will be transmitted at the end of the day, and will be the last message of the day.

2.5.2 Trade Services Only (UTDF only)

2.5.2.1 End Of Trade Reporting (CX)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	X – End of Trade Reporting Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The End of Trade Reporting Control Message signals that SIP has completed its trade entry eligibility and that no further data will be accepted by the UTP SIP for the market session. Upon dissemination of the last End of Trade Reporting control message, the UTP SIP will generate the Closing Trade Summary Report.

2.5.2.2 End of Consolidated Last Sale Eligibility (CS)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	S – End of Consolidated Last Sale Eligibility
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The End of Consolidated Last Sale Eligibility control message signals the closing of the trade-reporting window for consolidated last sale calculation eligibility.
Under the UTP plan, all participants must report trade transactions that impact the last sale price within 10 seconds of the normal market session close. The message will be generated 10 seconds after the market close message from the primary market.

2.5.3 Quote Services Only (UQDF only)

2.5.3.1 Quote Wipe-Out (CP)

Name	Offset	Length	Type	Notes
version	0	1	byte	1 – Protocol Version
msgCategory	1	1	byte	C – Control Messages
msgType	2	1	byte	P – Quote Wipe-Out Message
orig	3	1	byte	Market Center Originator ID
subMarketId	4	1	byte	Sub Market Center ID
sipTime	5	8	long	SIP Timestamp
timestamp1	13	8	long	Participant Timestamp
partToken	21	8	long	Participant Token

The Quote Wipe-Out message will be sent to indicate that a UTP Participant is experiencing a problem with their internal systems and, as a result, are not able to update their UTP BBO quotation information. The SIP will identify the UTP participant subject to the Quote Wipe Out via the Market Center Originator ID field.

During the Quote Wipe-out the SIP will zero out all quotes for the associated market center and recalculate the National BBO as necessary. Once the UTP participant resumes its normal operations, that participant will be required to enter fresh quotation information.

Note: The SIP shall only disseminate the Quote Wipe-Out Control message when a UTP participant is requesting the SIP to remove its quote from ***ALL*** NASDAQ-listed securities.

The SIP has the capability to remove a UTP participant's quote at the security level. If a UTP participant experiences a quoting problem that affects a single issue or a limited range of issues, the SIP has the capability of closing the market center's quote in only the impacted securities. Since the UTP participant is still active in other NASDAQ issues, however, the SIP will not send out a Quote Wipe-Out control message.

3 Code Definitions

3.1 Market Center Originator ID

Description	Value
Cboe Group of Exchanges	
Cboe BYX Exchange, Inc.	Y
Cboe BZX Exchange, Inc.	Z
Cboe EDGA Exchange, Inc.	J
Cboe EDGX Exchange, Inc.	K
Cboe Exchange, Inc.	W
Nasdaq Group of Exchanges	
Nasdaq Texas, LLC	B
Nasdaq PHLX LLC	X
Nasdaq, Inc.	Q
Nasdaq ISE, LLC*	I
NYSE Group of Exchanges	
New York Stock Exchange LLC	N
NYSE Arca, Inc.	P
NYSE American, LLC	A
NYSE National, Inc.	C
NYSE Texas	M
Independent Venues	
Texas Stock Exchange LLC (TXSE)	F
24X National Exchange, LLC	G
Financial Industry Regulatory Authority (FINRA)	D
Investors' Exchange LLC (IEX)	V
Long-Term Stock Exchange (LTSE)	L
MIAX Pearl, LLC (MIAX)	H
MEMX LLC (MEMX)	U
Generated By SIP	
Market Independent	E
Unassigned Values Available	
Pending Future Use	*R*
Pending Future Use	*0-9*

3.2 Sub-Market Center ID

Description	Value
FINRA / NYSE TRF	N
FINRA / Nasdaq TRF Carteret	Q
FINRA / Nasdaq TRF Chicago	B
Trade originates from FINRA Alternative Display Facility.	<space>
Unassigned Values Available	
Not Currently in use	*0 - 9*
Not Currently in use	A
Not Currently in use	C
Not Currently in use	I
Not Currently in use	J
Not Currently in use	K
Not Currently in use	L
Not Currently in use	M
Not Currently in use	P
Not Currently in use	V
Not Currently in use	W
Not Currently in use	X
Not Currently in use	Y
Not Currently in use	Z

3.3 Quote Condition Code

At the market center level, the allowable values are as follows:

Description	Value
*Manual Ask, automated Bid	A
*Manual Bid, automated Ask	B
Fast trading	F
*Manual Bid and Ask	H
Order imbalance	I
Closed quote	L
Non-firm quote	N
*Opening quote automated	O
*Regular, two-sided open quote automated	R
Manual Bid and Ask (non-firm)	U
Order influx	X
*Automated bid, no offer; or automated offer, no bid	Y
No open/no resume	Z
Intraday Auction	4

* Indicates that quotation including this quote condition is NBBO eligible.

At the National BBO level the following definitions will be supported. These values are intended to indicate the status of the NBBO as being either open or closed and are not an indication of an automatic status.

Description	Value
NBBO Closed	L
NBBO Regular, two-sided open	R
NBBO Regular, one-sided open	Y

Note: Firms should not use the Quote Condition field alone to determine trading status for a given issue. Firms must process the Trading Action administrative message for trading halt, trading pause, quotation resumption, and trading resumption status changes for NASDAQ-listed securities.

3.4 SIP Generated Update

Description	Value
Transaction originated from the market participant identified in the Market Center Originator ID field of the Message Header.	<space>
This message is the result of a SIP-generated transaction (e.g. price band change)	E

3.5 LULD BBO Indicator

Description	Value
Limit Up Limit Down Not Applicable	<space>
Bid Price above Upper Limit Price Band – Bid is Non-Executable	A
Ask Price below Lower Limit Price Band – Ask is Non-Executable	B
Bid and Ask outside price band. Not Executable	C

3.6 LULD National BBO Indicator

Description	Value
Limit Up Limit Down Not Applicable	<space>
National Best Bid and National Best Ask are Executable	A
National Best Bid below Lower Limit Price Band – National Best Bid is Non-Executable	B
National Best Ask above Upper Limit Price Band – National Best Ask is Non-Executable	C
National Best Bid below Lower Limit Price Band and National Best Ask above Upper Limit Price Band – National Best Bid and National Best Ask are Non-Executable	D
National Best Bid equals Upper Limit Price Band – National Best Bid is in Limit State	E
National Best Offer equals Lower Limit Price Band – National Best Ask is in Limit State	F
National Best Bid equals Upper Limit Price Band – National Best Bid is in Limit State and National Best Ask above Upper Limit Price Band – National Best Ask is Non-Executable	G
National Best Ask equals Lower Limit Price Band – National Best Ask is in Limit State and National Best Bid below Lower Limit Price Band – National Best Bid is Non-Executable	H
National Best Bid equals Upper Limit Price Band **and** National Best Ask equals Lower Limit Price Band *crossed not in limit state	I

3.7 Retail Interest Code

Description	Value
Retail Interest Not Applicable	<space>
Retail Interest On Bid Quote	A
Retail Interest On Ask Quote	B
Retail Interest On both Bid and Ask Quote	C

3.8 NBBO Appendage Indicator

Description	Value
No National BBO Change – The UTP participant's quote does not affect the National BBO. Vendors should continue to show the existing National BBO. No appendage is required.	0
No National BBO Can be Calculated – The National BBO cannot be calculated therefore vendors should show National BBO fields as blank. No appendage is required.	1
Short Form National BBO Appendage Attached – A new National BBO was generated as a result of the UTP participant's quote update and the new National BBO information is contained in the attached short form appendage. See criteria for the short form appendage below.	2
Long Form National BBO Appendage Attached – A new National BBO was generated as a result of the UTP participant's quote update and the new information is contained in the attached long form appendage.	3
Quote Contains All National BBO Information – Current UTP participant's quote is itself the National BBO. Vendors should update National BBO to reflect this new quote and single market center. (National Best Bid Market Center and National Best Ask Market Center fields should be updated to reflect the Market Center Originator ID value in the UQDF message header.) No appendage is required.	4

3.9 FINRA ADF MPID Appendage Indicator

Description	Value
Not applicable - Quotation originates from a UTP participant other than the FINRA. Vendors should continue to show the existing FINRA MPID(s). No appendage is required.	<space>
No ADF MPID changes – Current ADF quote does not affect the FINRA MPID. Vendors should continue to show the existing FINRA MPID(s). No appendage required.	0
No ADF MPID exists – There is no calculation of the FINRA MPID(s). Vendors should show the FINRA MPID fields as blank. No appendage is required.	1
ADF MPID(s) attached - FINRA MPID was generated and the information is contained in the attached appendage.	2

3.10 Consolidated Price Change Indicator

Description	Value
No prices changed	0
Consolidated Last price changed	1
Consolidated Low price changed	2
Consolidated Last and Consolidated Low prices changed	3
Consolidated High price changed	4
Consolidated Last and Consolidated High prices changed	5
Consolidated High and Consolidated Low prices changed	6
All Consolidated prices changed	7

3.11 Participant Price Change Indicator

Description	Value
No prices changed	0
Participant Last price changed	1
Participant Low price changed	2
Participant Last and Low prices changed	3
Participant High price changed	4
Participant Last and High prices changed	5
Participant High and Low prices changed	6
All Participant prices changed	7

3.12 Reg SHO Action Code

Description	Value
No price test in effect	0
Reg SHO in effect due to an intra day price drop in security	1
Reg SHO Restriction remains in effect	2

3.13 Trade Through Exempt Code

Description	Value
611 Trade Through Exempt	X
Not 611 Trade Through Exempt	<space>

3.14 Sale Condition

The Sale Condition field is used to indicate the type of trade transaction entered by a UTP participant. Market data subscribers may use this field to determine when to update the high, low, and last sale prices and volume for an issue.

As part of SEC Regulation NMS UTP participants will be required to identify trade transactions that have been exempted from the trade through rule.

3.14.1 Sale Condition Modifiers

Condition	Modifier
Regular Sale	@
Acquisition	A
Bunched Trade	B
Cash Sale	C
Distribution	D
Placeholder	E
Intermarket Sweep	F
Bunched Sold Trade	G
Price Variation Trade	H
Odd Lot Trade	I
Rule 155 Trade (AMEX)	K
Sold Last	L
Market Center Official Close	M
Reserved	N
Opening Prints	O
Prior Reference Price	P
Market Center Official Open	Q

Condition	Modifier
Seller	R
Split Trade	S
Form T	T
Extended trading hours (Sold Out of Sequence)	U
Contingent Trade	V
Average Price Trade	W
Cross/Periodic Auction Trade	X
Yellow Flag Regular Trade	Y
Sold (out of sequence)	Z
Stopped Stock (Regular Trade)	1
Derivatively priced	4
Re-Opening Prints	5
Closing Prints	6
Qualified Contingent Trade (“QCT”)	7
Placeholder For 611 Exempt	8
Corrected Consolidated Close (per listing market)	9

3.14.2 UTP Sale Condition Matrix

		Consolidated Processing Guidelines		Market Center Processing Guidelines		
Modifier	Condition	Update High/Low	Update Last	Update High/Low	Update Last	Update Volume
@	Regular Sale	Yes	Yes	Yes	Yes	Yes
A	Acquisition	Yes	Yes	Yes	Yes	Yes
B	Bunched Trade	Yes	Yes	Yes	Yes	Yes
C	Cash Sale	No	No	No	No	Yes
D	Distribution	Yes	Yes	Yes	Yes	Yes
E	Placeholder	TBD	TBD	TBD	TBD	TBD
F	Intermarket Sweep	Yes	Yes	Yes	Yes	Yes
G	Bunched Sold Trade	Yes	No[1]	Yes	No[1]	Yes
H	Price Variation Trade	No	No	No	No	Yes
I	Odd Lot Trade	No	No	No	No	Yes
K	Rule 155 Trade (AMEX)	Yes	Yes	Yes	Yes	Yes
L	Sold Last	Yes	Yes[2]	Yes	Yes	Yes
M	Market Center Official Close	No	No	Yes	Yes	No
N	Reserved	No	No	No	No	TBD
O	Opening Prints	Yes	Yes	Yes	Yes	Yes
P	Prior Reference Price	Yes	No[1]	Yes	No[1]	Yes
Q	Market Center Official Open[3]	No	No	Yes	No	No
R	Seller	No	No	No	No	Yes
S	Split Trade	Yes	Yes	Yes	Yes	Yes
T	Form T	No	No	No	No	Yes
U	Extended trading hours (Sold Out of Sequence)	No	No	No	No	Yes
V	Contingent Trade	No	No	No	No	Yes
W	Average Price Trade	No	No	No	No	Yes
X	Cross/Periodic Auction Trade	Yes	Yes	Yes	Yes	Yes
Y	Yellow Flag Regular Trade	Yes	Yes	Yes	Yes	Yes
Z	Sold (out of sequence)	Yes	No[1]	Yes	No[1]	Yes
1	Stopped Stock (Regular Trade)	Yes	Yes	Yes	Yes	Yes
4	Derivatively priced	Yes	No[1]	Yes	No[1]	Yes
5	Re-Opening Prints	Yes	Yes	Yes	Yes	Yes
6	Closing Prints	Yes	Yes	Yes	Yes	Yes
7	Qualified Contingent Trade ("QCT")	No	No	No	No	Yes
8	Placeholder For 611 Exempt	TBD	TBD	TBD	TBD	TBD
9	Corrected Consolidated Close (per listing market)	Yes	Yes	No	No	No

[1] *UTDF Subscribers should only update the field values if the trade is the first or only last sale eligible trade transaction of the business day from any UTP participant.*

[2] *UTDF subscribers should update consolidated last sale field if received prior to the End of Last Sale Eligibility Control Message (16:00:10). After End of Last Sale Eligibility Control Message is received the transaction would only update the market center-specific last sale value but not the consolidated last sale value.*

[3] *Please note that direct data recipients, which maintain individual market center open values, should use the "Q" value as the official market center opening value and populate data displays accordingly.*

Notes:

- For the sale condition modifier of "M" (Market Center Close Price), UTDF subscribers should note that this value is available to, but may not be supported by, all UTP participants. If a UTP Participant does not provide this sale condition code, UTDF subscribers should continue to show its final last sale eligible trade as the closing price for the market center.
- The "M" sale condition modifier will update the last sale price for the market center, but not the consolidated market. If the market center responsible for the consolidated last sale price submits a separate "M" transaction, it is possible that the two last sale values will not match.
- For the sale condition modifier of "Q" (Market Center Open Price), UTDF subscribers should note that this value is available to, but may not be supported by, all UTP participants.
- For statistical update of the High/Low/Last, if there are multiple sale conditions within the trade record, a "no" update for any one of the statistics will take precedence for that related statistical record and no update will occur for the related value.

3.14.3 Sale Condition Combination Table

Level1 Byte: Settlement Type	Level2 Byte: Reason for TT Exemption	Level3 Byte: Extended Hours or Sold	Level4 Byte: SRO Trade Detail
@ = Regular Trade	F = Intermarket Sweep	T = Form T	1 = Stopped Stock
C = Cash	O = Opening Prints	L = Sold Last	A = Acquisition
N = Reserved	4 = Derivatively Priced	Z = Sold (Out of Sequence)	B = Bunched
R = Seller	5 = Re-Opening Prints	U = Extended trading hours - Sold Out of Sequence	D = Distribution
Y = Yellow Flag	6 = Closing Prints		E = Placeholder Future
	7 = Qualified Contingent Trade ("QCT")		G = Bunched Sold Trade
	8 = Placeholder For 611 Exempt		H = Price Variation
	9 = Corrected Consolidated Close (per listing market)		I = Odd Lot Trade
			K = Rule 155
			M = Market Center Official Close Price
			P = Prior Reference Price
			Q = Market Center Official Open Price
			S = Split Trade
			V = Contingent Trade
			W = Average Price Trade
			X = Cross/Periodic Auction Trade
	<Space>	<Space>	<Space>

3.14.4 Sale Condition and Trade Through Exempt Combinations

Participant is required to submit the Reg NMS sale condition data in proper byte location sequence and proper trade through exempt flag as follows:

Scenario A: If the trade record is marked as 611 exempt (X) then the allowable four bytes values are as follows:

Trade Through Exempt 611 Exempt	Level1 – Byte Settlement Type	Level 2 – Byte Reason for TT Exemption	Level 3 Byte Extended Hours or Sold	Level 4 – Byte SRO Trade Detail
X	@, C, N, R, or Y	F, O, 4, 5, 6, 7, 8, 9, <space>	T, L, Z, U, <space>	1, A, B, D, E, G, H, I, K, M, P, Q, S, V, W, X, <space>

Scenario B: If the trade record is marked as Not 611 exempt (space) then the allowable four bytes values are as follows:

Trade Through Exempt 611 Exempt	Level1 – Byte Settlement Type	Level 2 – Byte Reason for TT Exemption	Level 3 Byte Extended Hours or Sold	Level 4 – Byte SRO Trade Detail
<space>	@, C, N, R, or Y	O, 5, 6, <space>	T, L, Z, U, <space>	1, A, B, D, E, G, H, I, K, M, P, Q, S, V, W, X, <space>

3.14.5 Sale Condition Notes

Note 1: The Form T (T) Sale Condition should be applied for the following:

- Trades executed on trade day between 12:00 a.m. and 9:30 a.m.
- Trades executed on trade day between 4:00:01 p.m. and 8:00 p.m.

Note 2: The U Extended Hours (Sold out of sequence) Sale Condition should be applied when transactions executed during the following time periods are reported more than 10 seconds after execution.

- Trades executed on trade day between 12:00 a.m. and 9:30 a.m.
- Trades executed on trade day between 4:00:01 p.m. and 8:00 p.m.

Note 3: The Sale Condition "M", Market Center Close Price, is used to indicate the "official" closing value as determined by a market center. A message generated with this condition will contain the market center generated closing price. The "M" sale condition modifier shall only affect the market center closing/last sale value and will not affect the consolidated market value.

Note 4: The Sale Condition "Q", Market Center Open Price, is used to indicate the "official" open value as determined by a Market Center. A message generated with this condition will contain the Market Center generated open price. The "Q" sale condition shall only affect the Market Center open high/low values and will not affect any of the consolidated market values.

Note 5: Certain UTP Participants utilize the "W" sale condition (average price trades) to report stopped stock transactions. Because "W" sale condition trades reflect other

transaction prices, the trades with this sale condition will not affect the consolidated or market center high, low, or last sale prices. Volume statistics, however, will be impacted.

Note 6: Current Day Odd lot transactions will be rejected back to the participant via Error Code "Invalid Volume", for the following reasons:

- Invalid Volume
- Report Volume is zero and sale condition does not equal ***"9"***, "**M**" or "**Q**"
- Report Volume contains volume less than a round lot ***and sale condition does not equal "I"***

Note 7: The Sale Condition "Y", Yellow Flag, is used to convey periods of time when a Market Center may be experiencing technical difficulties. This sale condition will affect the Market Center and Consolidated last sale, high, low and volume values.

Note 8: The Sale Condition "9", Corrected Consolidated Close (per listing market), will be allowed to be used only by the Listing Market and may be used to adjust the consolidated last sale price. The Corrected Consolidated Close will be eligible to set the High, Low and Last for the consolidated statistics and will not update the participant records. Volume will always be reported as zero and will appear in Level 2 of the extended sale condition modifier field on the UTDF and CTS data feeds. Corrected Consolidated Close transactions will be rejected back to participants for the following reasons:

Sale Condition "9" Processing scenario	Validation Processing
Sale Condition "9" Trades received before allowable reporting time of 30 seconds after market close	Invalid Reporting Time
Sale Condition "9" Trades received from non-listing market	Invalid User Origin
Sale Condition "9" Trades received from Listing Market with Volume Other than Zero (0)	Invalid Volume

3.15 Trade Cancel Type Code

Description	Value
Cancel	C
Error	E

3.16 As-Of Action

Description	Value
As-Of Trade Addition	A
As-Of Trade Cancel	C

3.17 Trading Action/State Indicator

Description	Value
Trading Halt	H
Quotation Resumption, including after EMA	Q
Trading Resumption	T
Volatility Trading Pause	P

3.18 Market Center Close Indicator

Description	Value
Market Center Closing Price is based on transaction with “M” sale condition modifier.	M
Market Center Closing Price is not based on a transaction with an “M” sale condition modifier.	<space>

3.19 Special Condition

Description	Value
One-sided National BBO at Market Close.	O
Trading Halt In Effect at Market Close.	H
No Eligible Market Participant Quotes in Issue at Market Close.	M
No Special Condition exists.	<space>

3.20 Authenticity

Description	Value
Live/Production	P
Test	T
Demo	D
Deleted	X

3.21 Issue Type

Description	Value
American Depository Receipt	A
Bond	B
Common Stock	C
Depository Receipt	F
144A	I
Limited Partnership	L
Note	N
Ordinary Shares	O
Preferred Stock	P
Other Securities	Q
Rights	R
Shares of Beneficial Interest	S
Convertible Debenture	T
Unit	U
Units of Beneficial Interest	V
Warrant	W

(Note: The list above reflects the allowable values in the Nasdaq security master database. Only a subset of these values are currently in use.)

3.22 Issue Subtype

Description	Value
Trust Preferred	A
Alpha Index ETNs	AI
Index Linked Note	B
Common Shares	C
Commodity Based Trust Shares	CB
Commodity Futures Trust Shares	CF
Commodity-Linked Securities	CL
Commodity Index Trust Shares	CM
Collateralized Mortgage Obligation	CO
Currency Trust Shares	CT
Commodity-Currency-Linked Securities	CU
Currency Warrants	CW
Global Depositary Shares	D
ETF-Unit Investment Trust	E
Equity Gold Shares	EG
ETN-Equity Index-Linked Securities	EI
Exchange Traded Managed Fund (ETMF)	EM
Exchange Traded Note	EN
Equity Units	EU
HOLDRS	F
ETN-Fixed Income-Linked Securities	FI
ETN-Futures-Linked Securities	FL
Exchange Traded Debt	G
ETF-Management Investment Company	I
Interest Rate	IR
Index Warrant	IW
Index-Linked Exchangeable Notes	IX
Corporate Backed Trust Security	J
Contingent Litigation Right/Warrant	L
Limited Liability Company	LL

Description	Value
Equity Linked Note	M
Managed Fund Shares	MF
ETN-Multi-Factor Index-Linked Securities	ML
Managed Trust Securities	MT
NY Registry Shares	N
Income Depositary Shares	O
Third Party Trust Certificate	P
Poison Pill	PP
Partnership Units	PU
Closed End Funds	Q
Reg-S	R
Commodity-Redeemable Commodity-Linked Securities	RC
ETN-Redeemable Futures-Linked Securities	RF
REIT	RT
Commodity-Redeemable Currency-Linked Securities	RU
SEED	S
Spot Rate Closing	SC
Spot Rate Intraday	SI
Tracking Stock	T
Trust Certificate	TC
Trust Units	TU
Portal	U
Contingent Value Right	V
Trust Issued Receipts	W
World Currency Option	WC
Trust	X
Other	Y
N/A	Z

3.23 Market Tier

Description	Value
Nasdaq Global Select Market	Q
Nasdaq Global Market	G
Nasdaq Capital Market	S

3.24 Short Sale Threshold Indicator

Description	Value
Issue is restricted under SEC Rule 203(b)(3)	Y
Issue is not restricted	N
Threshold Indicator not available	<space>

3.25 Financial Status Indicator

Description	Value
Creations and/or Redemptions Suspended for Exchange Traded Product	C
Deficient: Issuer Failed to Meet NASDAQ Continued Listing Requirements	D
Delinquent: Issuer Missed Regulatory Filing Deadline	E
Bankrupt: Issuer Has Filed for Bankruptcy	Q
Normal (Default): Issuer Is NOT Deficient, Delinquent, or Bankrupt.	N
Deficient and Bankrupt	G
Deficient and Delinquent	H
Delinquent and Bankrupt	J
Deficient, Delinquent, and Bankrupt	K

Notes: External Market Data Distributors must provide the Financial Status Indicator field for NASDAQ-listed securities to their customer displays. Once the Financial Status Indicator field is in place, NASDAQ plans to discontinue the use of fifth character symbol suffixes for delinquent or bankrupt issues.

3.26 LULD Price Band Indicator

Description	Value
Opening Update US market Hours	A
Intra-Day Update US Market Hours	B
Restated Value	C
Suspended during trading halt or trading pause	D
Re-Opening Update US Market Hours	E
Outside price band rule hours	F
Extended Operational Hours (9:00 pm – 4:00 am EST) • **Initial / Update Value** • **Zeroing Value**	 **G** **H**
None provided	<space>

With the introduction of the new operational hours the UTP SIP will begin to support dissemination of new LULD Price protections covering the new additional operational hours. To aid the industry in identifying this, we have added a new Indicator value.

3.27 Market Wide Circuit Breaker Status Level Indicator

Description	Value
Market Wide Circuit Breaker Decline Level 1 Breached (7% decline)	1
Market Wide Circuit Breaker Decline Level 2 Breached (13% decline)	2
Market Wide Circuit Breaker Decline Level 3 Breached (20% decline)	3

3.28 BOLO Appendage Indicator

Description	Value
No BOLO Change – The UTP participant's quote does not affect the BOLO. Vendors should continue to show the existing BOLO. No appendage is required.	0
No BOLO Can be Calculated – The BOLO cannot be calculated therefore vendors should show BOLO fields as blank. No appendage is required.	1
Short Form BOLO Appendage Attached – A new BOLO was generated as a result of the UTP participant's quote update and the new BOLO information is contained in the attached short form appendage.	2
Long Form BOLO Appendage Attached – A new BOLO was generated as a result of the UTP participant's quote update and the new information is contained in the attached long form appendage.	3
MPID Form BOLO Appendage Attached – A new BOLO was generated as a result in FINRA ADF participant update and the new information is contained in the attached MPID BOLO appendage.	5

3.29 Odd Lot Attachment Type

Description	Value
No Odd Lot Price Levels attached – The UTP participant's quote does not contain any odd lot price level(s). No attachment required.	0
Short Form Odd Lot Price Levels attached – The UTP participant's quote does contain odd lot price level(s).	2
Long Form Odd Lot Price Levels attached – The UTP participant's quote does contain odd lot price level(s).	3
MPID Form Odd Lot Price Levels Attached – An update results in requiring notification of a FINRA ADF participant update within a price level.	5

3.30 Round Lot Size

Share Price	Round Lot Size
$0 - $250	100
$250.01 - $1000	40
$1000.01 - $10,000	10
$10,000.01 - more	1

3.31 New Issue Indicator

Description	Value
Not an IPO	0
Initial Public Offering (IPO)	1
Reserved	2

3.32 Minimum Price Increment

Description	Value
Varies by price	0
MPI (0.0001)	1
MPI (0.001)	2
MPI (0.01) Penny	3
MPI (0.05) Nickel	4
MPI (0.10) Dime	5
MPI (0.25) Quarter	6
MPI (0.005) Half Penny	7

Note: All symbols will have Penny MPI until November 2027, when the new Half Penny MPI is introduced.

Once the SEC mandate becomes effective (November 1, 2027) it is expected that Nasdaq will assign the stocks with either the penny ($0.01) or half Penny ($0.005) values.

3.33 Exchange Traded Product (ETP) Flag

Description	Value
Issue Is an ETP	Y
Issue not an ETP	N
No Value Provided	<space>

4 Revision History

Revision	Date	Change
1.0	10/27/2015	Initial Version
1.2	12/24/2015	Include the calculation and dissemination of the market participant statistical level tracking of High / Low / Last and volume.
1.2a	01/19/2016	Minor edits to clean up terminology throughout the document.
1.2b	03/03/2016	• Minor edits to text formatting throughout document • Corrected allowable values on page 50 to correctly identify Issue Sub Types • Correct the definition of Trade Condition "M" to read Market Center Official Close
1.2c	03/18/2016	At the request of Bats we modified their exchange Naming Convention
1.2d	03/28/2016	Corrected field consVolume in the Trade Cancel/Error message (TZ) to the correct type which is 8 byte long.
1.2e	4/12/2016	Corrected sale condition field type from byte to byte[]. Added clarification that the End of Trade Reporting Control Message (CX) is generated by the SIP prior to final Closing Trade Summary Report.
1.2f	6/8/2016	Added NBBO Quote Condition descriptions. Corrected AP, AC and AD messages allowed participant in the message table. Clarified 611 trade through exempt code.
1.3	02/24/2017	Added Auction Collar Message (AE) to section 2.4.1.9
1.3a	6/30/2017	Revised the last sale trade reporting eligibility from 90 seconds down to 10 seconds.
1.3b	08/21/2017	Revised Auction Collar Message (AE) to clearly define the allowable value for Collar Extension Indicator.
1.3c	05/07/2018	Revised the documentation to reflect the changes to FINRA Trade reporting Facilities as detailed in UTP Vendor Alert 2018-06
1.4	12/3/2019	Modified 3.1 to reflect corporate name changes for the Market Center Originator ID's Added Pending Market Center Originator ID's to allow for future use by new exchanges entering the UTP Plan. To be assigned once approved by SEC and UTP Plan. Assigned "L" Originator ID to the Long-Term Stock Exchange
1.5	5/5/2020	Assigned "H" Originator ID to MIAX Pearl, LLC Assigned "U" Originator ID to MEMX LLC
1.6	6/21/2021	Updated Section 3.14 Sale Condition: Revised the existing Sale Condition (Cross Trade "X"), which is described as a trade transaction resulting from a market center's crossing session. Will be redefined to allow for the reporting of any exchanges Periodic Auctions.
1.7	4/14/2023	Updated document to clarify that Alpha fields are alphanumeric and may contain numeric values 0-9 Modified 2.2.5 to reflect that a QM message may be produced to support FINRA ADF messaging.

1.8	4/26/2024	Sale Condition 'N' (Next Day Trade) marked as Reserved as input Participants will transition to a shortened standard settlement cycle.
1.9	5/7/2025	Modified Spec to reflect the Reg NMS rule changes for Round Lot Transparency. Introduction of new Round Lot Tier Designations. Informed change to quote size being in actual shares with the Round Lot changes, effective November 3, 2025. Removed Section 4 "Binary and ASCII Protocol Differences" Renumbered Section 5 to Section 4 Revised the Exchange Name for NYSE Chicago to NYSE Texas (Originator ID of "M")
1.9a	6/12/2025	Assigned "G" Originator ID to 24X National Exchange LLC Revised 3.14.5 Sale Condition Note 6 to reflect Odd Lot validation only on Current Day Trades.
2.0	March 2024	Created a new supported version of the specification to accommodate Fractional Share Trade Reporting Once the "Hot Cut" is live this will replace the Binary Version 1.7
2.0a	April 2024	Sale Condition 'N' (Next Day Trade) marked as Reserved as input Participants will transition to a shortened standard settlement cycle
2.1	May 2025	Modified Spec to reflect the Reg NMS rule changes for Round Lot Transparency. Introduction of new Round Lot Tier Designations. Informed change to quote size being in actual shares with the Round Lot changes, effective November 3, 2025. Removed Section 4 "Binary and ASCII Protocol Differences" Renumbered Section 5 to Section 4 Revised the Exchange Name for NYSE Chicago to NYSE Texas (Originator ID of "M")
2.1a	6/12/2025	Assigned "G" Originator ID to 24X National Exchange, LLC Revised 3.14.5 Sale Condition Note 6 to reflect Odd Lot validation only on Current Day Trades.
3.0	8/7/2025	Revised Numbering throughout to reflect the addition of new Odd Lot Processing Updated the document to include the Odd Lot release details throughout this specification. Release is scheduled for April 27, 2026.
3.0a	11/3/2025	Section 2.2.8 added the allowable values for SIDE. B = Bid Side A = Ask Side
3.0b	1/30/2026	Assigned "F" Originator ID to Texas Stock Exchange, LLC (TXSE)

<table>
<tr><td>3.0c</td><td>2/13/2026</td><td>Revised the Exchange Name for Nasdaq BX to Nasdaq Texas, LLC (Originator ID of “B”)</td></tr>
<tr><td>4.0</td><td>6/8/2026</td><td>Modified Spec to introduce a new Enhanced Symbol Directory Message (Category A – Type F) supporting future releases.

Added Release enhancement in support of SEC MPI Tick Rule changes.

Added Release enhancements to support move to a 23/5 operational hours.

Added Sections 3.33 – 3.35 to reflect new field values within the Enhanced Symbol Directory Message.

Added a new allowable value within Section 3.28 “LULD Price Band Indicator”.</td></tr>
<tr><td>4.0a</td><td>7/8/2026</td><td>Added release date enhancement in support of SEC MPI Tick Rule changes.</td></tr>
<tr><td>4.1</td><td>9/1/2026</td><td>Revised the Closing Trade Summary Report Message (AU)- “Trading Action Code” name to Trading Action/State Indicator.

Deleted the original/outdated Trading Action/State Indicator due to Enhanced Symbol Directory implementation:

3.20 Trading Action/State Indicator
<table><tr><th>Description</th><th>Value</th></tr><tr><td>Trading Halt In Effect</td><td>H</td></tr><tr><td>Regular Trading In Effect</td><td><space></td></tr></table>
Updated the header for the below:
3.17 Trading Action/State Indicator
<table><tr><th>Description</th><th>Value</th></tr><tr><td>Trading Halt</td><td>H</td></tr><tr><td>Quotation Resumption, including after EMA</td><td>Q</td></tr><tr><td>Trading Resumption</td><td>T</td></tr><tr><td>Volatility Trading Pause</td><td>P</td></tr></table></td></tr>
</table>