TAQ PRODUCTS CLIENT SPECIFICATION

(PILLAR INTEGRATED, BBO, TRADES AND IMBALANCE FEEDS)

NYSE
NYSE AMERICAN
NYSE ARCA
NYSE TEXAS
NYSE NATIONAL

Version	Date
2.4a	April 20, 2026

PREFACE

DOCUMENT HISTORY

VERSION NO.	DATE	CHANGE DESCRIPTION
2.1	Feb 24, 2017	Changes for XDP 2.1 Increased accuracy of all timestamps to nanoseconds (nnnnnnnnn) New values E and L in Security Status and Market State fields of Security Status message Added exchange code V for IEX in Security Status message Blanked out DB Exec ID field in Execution and Non-Displayed Trade msgs Added Retail Price Improvement msg, type 114 Added Indicative Match Price field to Imbalance msg RPI Indicator in Quote message now published by the Arca exchange
2.1a	Apr 25, 2017	Appendix B: corrected ftp file extensions to .gz and explanatory text
2.1b	May 18, 2017	Added new fields to Imbalance msg to support LULD amendment 12 Corrected external links and contact information
2.1c	May 25, 2017	Clarified/corrected Data Type information in 2.2 Corrected certain formatting
2.1d	September 12, 2017	no changes in feed behavior, only spec clarifications Updated Imbalance msg field descriptions and Appendix A to include specialized information for NYSE Tape A symbols Added NYSE to message publication times Corrected description of DBExecID field for NYSE Tape A symbols
2.1e	November 17, 2017	Updated doc to reflect correct NYSE Integrated Tape A filenames during interim (January 18, 2018 to Q2 2018) interim period
2.1f	December 04, 2017	Updated to mention that for Arca TAQ XDP products only, Symbol Index Mapping Message fields “MPV” and “Unit of Trade” may be blank until a date TBD
2.1g	February 02, 2018	Updated to include the NYSE National exchange
2.1h	May 01, 2018	Updated to accommodate other markets. Updated to include the new product offerings for historical TAQ NYSE Arca BBO and TAQ NYSE Arca Order Imbalances. Updated doc to include changes for TAQ NYSE Arca Trades in alignment with the real-time NYSE Arca Trades Feed. Eliminated a separate file for TAQ NYSE Arca Bust. TAQ NYSE Arca Trade includes Message types 220,221,222,and 223. Updated the access platform from NYSE FTP2(ftp2.nyxdata.com) to Managed File Transfer (MFT) on https://mftus.nyx.com/. MPV & Unit of Trade fields in the Symbol Index Mapping Message (Msg Type 3) are now populated for NYSE ARCA as with all markets. File name change for TAQ NYSE Arca Trades from EQY_US_ALL_ARCA_TRADE/EQY_US_ALL_ARCA_TRADE_YYYY/ EQY_US_ALL_ARCA_TRADE_YYYYMM/TAQ_ArcaEq_Trade_YYYYMMDD.csv.gz

VERSION NO.	DATE	CHANGE DESCRIPTION
		Updated the Imbalance the Clearing Price fields and 7 trailing fields – no longer set to 0 for Arca and American. Corrected 7 trailing fields: for NYSE, 0 for now.
2.2	November 30, 2018	Updated to include NYSE Tape A changes, specifically to the Imbalance Message, Msg Type 105 (3 additional fields – UnpairedQty, UnpairedSide, SignificantImbalance). Additional information on NYSE Auctions. Refer to Appendix (etc.)
2.2a	January 31, 2019	Added support for the publication NYSE TRF Market Data - New Message Types 215 - 219.
2.2b	March 18, 2019	Additional clarification on new TRF filename and additional Integrated Feed files. Updated imbalance publication timer in NYSE to 3:50pm. Added Appendix C with additional historical TAQ file availability. Eliminated quote conditions in Quote Message (140) - C and W (NYSE only)
2.2c	April 30, 2019	Updated Trade Conditions for the TRF Market Data messages (Msg Type 215 - 219).
2.2d	May 14, 2019	Updated Security Type in symbol Index mapping message (msg type 3) for Pillar Tape A migration.
2.3	June 21, 2019	Added support for new exchange, NYSE Texas - additional TAQ files for Integrated, BBO and Trades.
2.3a	February 26, 2020	Added support for new TAQ Arca Integrated files corresponding to the ARCA Hardware expansion - effective June 1, 2020. Added additional history for TAQ Arca Integrated. Refer to Appendix C.
2.3b	May 28, 2020	Date correction for new TAQ Arca Integrated files corresponding to the ARCA Hardware expansion - effective August 3, 2020.
2.3c	Aug 28, 2020	Added CTS Halt Reasons and CQS Security Status Indicators on msgtype 34 - effective Q4 2020.
2.3d	Nov 1, 2021	Added new file delivery method via AWS Cloud S3. Backfilled additional history for the TAQ NYSE Arca Order Imbalances product for the timeframe 1/30/2012-12/31/2017. Updated NYSE Arca Order Imbalances Early Auction opening time.
2.3e	Jan 28, 2022	Addition of Trade Conditions 1-4 on msgtype 103 and msgtype 110, in place of DBEXECID on the Integrated Feed TAQ Addition of ‘B’ Begin Accepting Orders security status in msgtype 34.
2.3f	Mar 21, 2022	Updated document with new NYSE logo and branding. No content changes.
2.3g	May 16, 2022	TAQ Integrated Msgtype 101 - Updated Modify message ‘Reserved 1’ field (field 10) to 'Side' (ASCII) TAQ Integrated Msgtype 104 - Updated Replace message ‘Reserved 1’ field (field 10) to 'Side' (ASCII)

VERSION NO.	DATE	CHANGE DESCRIPTION
2.3h	September 15, 2022	Updated Section 1.3.3 - Additional TAQ files corresponding to new channels on the Arca Integrated Feed - Oct 2022
2.3i	November 30, 2022	Updated Section 25.3 for clarifications on imbalance message publication timings.
2.3j	February 22, 2024	Added Halt Status Code '6 - Suspend' to Security Status field (field 6) and to Halt Condition field (field 7) in Security Status Message (Msg Type 34) effective tbd. ~~Updated section 25. to account for new feed start time of 2:00am EST~~ Removed document footer
2.3k	March 28th 2025	Updated section 25.3 to account for new feed start time of 2:00am EST Removed Next Day Settlement from all trade related messages types (103, 110, 215, 217, 218, 220, 222) Rebranded NYSE Chicago to NYSE Texas • Message Type 3: Symbol Index Mapping Field Marke ID - value 11=NYSE Chicago Equities changed to NYSE Texas Equities • Message Types: TRF Trade, TRF Trade Correction, TRF Prior Day Trade, Trade and Trade Correction had the following values change: o Field SSR Triggering Exchange ID value M=NYSE Chicago changed to M=NYSE Texas o Field Trad Cond1 - value C=TRF or Chcago Only changed to TRF or Texas Only o Field Trade Cond2 - value 7= TRF or Chcago Only changed to TRF or Texas Only o Field Trade Cond4 - value P= TRF or Chcago Only changed to TRF or Texas Only • SFTP Directories o Integrated Feed files plus Stock Summary Directories changed from Chicago to Texas o BBO Files Directories changed from Chicago to Texas o Trades files plus Stock Summary Directories changed from Chicago to Texas • AWS Directories o Integrated Feed files plus Stock Summary Directories changed from CHICAGO: 17_TAQ_NYSE_CHICAGO_INTEGRATED/ to TEXAS: 43_TAQ_NYSE_TEXAS_INTEGRATED/ o BBO Files Directories changesd from CHICAGO: 28_TAQ_NYSE_CHICAGO_BBO/ to TEXAS: 44_TAQ_NYSE_TEXAS_BBO/ o Trade Files plus Stock Summary changed from CHICAGO: 31_TAQ_NYSE_CHICAGO_TRADES/ to TEXAS: 45_TAQ_NYSE_TEXAS_TRADES/
2.3l	May 9th 2025	Adding Texas Imbalances • 1.3.**5 NYSE Texas Product Characteristics** o Added TAQ NYSE Texas Order Imbalances

VERSION NO.	DATE	CHANGE DESCRIPTION

		• Updated Appendix A: Information on Auctions
		• 25.4 SFTP
		  ○ Added Texas Order Imbalance
		• 25.5 S3
		  ○ Added **TEXAS:** 46_TAQ_TEXAS_ORDER_IMBALANCES/

2.3m	August 7, 2025	Added value of "G" to SSR Triggering Exchange ID field in Security Status Message (Msg Type 34) in support of 24X launch
2.4	August 20, 2025	Removed description for number of files in APPENDIX A. Corrected number of data channel files in Section 1.3. Updated number of data channel files for TAQ NYSE Texas Integrated, BBO and Trades to 8 files per product effective October 13, 2025. Replaced NYSE TRF message types in support of fractional shares trade reporting effective November 17, 2025 (new messages support both whole and fractional quantity): • TRF Fractional Trade Message - msg type 210 replaces 215 • TRF Fractional Trade Correction Message - msg type 212 replaces 217 • TRF Fractional Prior Day Trade Message - msg type 213 replaces 218 • TRF Fractional Prior Day Trade Cancel Message - msg type 214 replaces 219 *Note: TRF trade cancels will continue to be communicated exclusively using the TRF Trade Cancel Message (msg type 216)*
2.4a	April 20th, 2026	Added value of "F" to SSR Triggering Exchange ID field in Security Status Message (Msg Type 34) in support of TXSE (Texas Stock Exchange) launch Added value of "F" to Exchange Code field in Symbol Index Mapping (Msg Type 3) in support of TXSE (Texas Stock Exchange) launch

RELATED DOCUMENTS

[NYSE Symbology Specification]
[Integrated Feed]
[BBO Feed]
[Trades Feed]
[Imbalances Feed]

CONTACT INFORMATION

- Connectivity — support@nyse.com
- Proprietary Market Data — MarketDataHelp@nyse.com

FURTHER INFORMATION

- For additional information about the product, visit the NYSE Historical Market Data Product Page

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1. TAQ for Pillar Integrated, BBO, Trades and Imbalance Products

1.1 OVERVIEW

In NYSE Group nomenclature, the term TAQ simply denotes a historical data product.

The TAQ XDP Products are a historical record of all data that was published by the NYSE XDP feeds on a particular day. Each TAQ XDP product corresponds to a single NYSE XDP real time feed.

Feed TAQ data is available on an end-of-day basis in flat file format, enabling you to recreate the market for any given time. On a per-market basis, the following feeds are available in TAQ format:

PRODUCT	MARKETS
TAQ NYSE Integrated Feed	NYSE, NYSE American, NYSE Arca, NYSE National, NYSE Texas
TAQ NYSE BBO	NYSE, NYSE American, NYSE Arca, NYSE National, NYSE Texas
TAQ NYSE Trades	NYSE, NYSE American, NYSE Arca, NYSE National, NYSE TRF, NYSE Texas
TAQ NYSE Order Imbalances	NYSE, NYSE American, NYSE Arca, NYSE Texas

1.2 ACCESS AND DATA FORMAT

All TAQ XDP product files consist of newline-terminated records in ASCII CSV format. The files are compressed using GNU Zip, and can be downloaded using either of the delivery methods below:

1. Files can be accessed via AWS Cloud S3 using an AWS Account. Additional instructions may be found here.
2. Files can be downloaded via SFTP on the NYSE File Transfer Site, sftp.nyse.com.

For information on file paths and filenames, see Appendix B.

Note that previously, two formats were supported: this CSV format, and a pipe-delimited zipped format. The pipe-delimited format has been eliminated.

Each record in the TAQ file corresponds to a single data event in the real time feed. TAQ file records are in the same order as the data events were in the real time feed.

1.3 NYSE PRODUCTS

1.3.1 NYSE Product Characteristics

PRODUCT	DATA CHANNEL FILES	STOCK SUMMARY FILE	APPROX TOTAL FILE SIZE
TAQ NYSE Integrated Feed	14	Y	4 GB
TAQ NYSE BBO	14	N	1 GB
TAQ NYSE Trades	14	Y	100 MB
TAQ NYSE Order Imbalances	1	N	200 MB

1.3.2 NYSE American Product Characteristics

PRODUCT	DATA CHANNEL FILES	STOCK SUMMARY FILE	APPROX FILE SIZE
TAQ NYSE American Integrated	6	Y	50 MB
TAQ NYSE American BBO	6	N	20 MB
TAQ NYSE American Trades	6	Y	2 MB
TAQ NYSE American Imbalances	1	N	200 KB

1.3.3 NYSE Arca Product Characteristics

PRODUCT	DATA CHANNEL FILES	STOCK SUMMARY FILE	APPROX FILE SIZE
TAQ NYSE Arca Integrated	14	Y	4 GB
TAQ NYSE Arca Trades	14	Y	100 MB
TAQ NYSE Arca BBO	14	N	1 GB
TAQ NYSE Arca Order Imbalances	1	N	200 MB

1.3.4 NYSE National Product Characteristics

PRODUCT	DATA CHANNEL FILES	STOCK SUMMARY FILE	APPROX FILE SIZE
TAQ NYSE National Integrated	6	Y	50 MB
TAQ NYSE National BBO	6	N	20 MB
TAQ NYSE National Trades	6	Y	2 MB

1.3.5 NYSE Texas Product Characteristics

PRODUCT	DATA CHANNEL FILES	STOCK SUMMARY FILE	APPROX FILE SIZE
TAQ NYSE Texas Integrated	8	Y	50 MB
TAQ NYSE Texas BBO	8	N	20 MB
TAQ NYSE Texas Trades	8	Y	2 MB
TAQ NYSE Texas Order Imbalances	1	N	200 MB

SAMPLE DATA

Sample data is available on the NYSE public ftp server.

1.4 CONTRACTS AND LICENSING

Subscribers must execute the appropriate agreement (Exhibit A and/or NYSE Vendor Agreement) which will be generated upon submission of the online order from the product page for each product on the ICE dashboard. Upon approval, NYSE will issue the user credentials if accessing the data via the SFTP-Managed File Transfer site. If accessing the data via AWS Cloud S3, please allow up to 24 hours for newly purchased data product(s) access permissioning setup to complete.

2. Message and Field Level Data

2.1 DISTRIBUTION OF MESSAGE TYPES AMONG TAQ XDP FILE PRODUCTS

Each TAQ XDP product contains a subset of all the message types described in this document, as shown below.

MSG TYPE	DESCRIPTION	INTEGRATED	BBO	TRADES	IMBALANCES
3	Symbol Index Mapping Message	Y	Y	Y	Y
34	Security Status Message	Y	Y	Y	Y
100	Add Order Message	Y			
101	Modify Order Message	Y			
104	Replace Order Message	Y			
102	Delete Order Message	Y			
103	Order Execution Message	Y			
110	Non-Displayed Trade Message	Y			
112	Trade Cancel Message	Y			
111	Cross Trade Message	Y			
113	Cross Correction Message	Y			
114	Retail Price Improvement Msg	Y			
105	Imbalance Message	Y			Y
106	Add Order Refresh Message	Y			
140	Quote Message		Y		
220	Trade Message			Y	
221	Trade Cancel Message			Y	
222	Trade Correction Message			Y	
223	Stock Summary Message	Y		Y	
210	TRF Fractional Trade Message			Y	
212	TRF Fractional Trade Correction Message			Y	
213	TRF Fractional Prior Day Trade Message			Y	
214	TRF Fractional Prior Day Trade Cancel Message			Y	
216	TRF Trade Cancel Message			Y	

2.2 DATA TYPES

1. Numeric fields consist of numeric ASCII characters only (0-9).
2. Alpha fields consist of alphabetic ASCII characters only (a-z and A-Z).
3. Prices are in decimal format. Examples; “25.222”, “0.125”, “100.6”, “2.30”, “4.444’ except for the UpperCollar and LowerCollar fields (Imbalance Message - Msg Type 105)
4. A sequence number is an increasing number that uniquely identifies each message per channel. It starts the day at 1 and increments by 1 for each new message per channel.
5. Timestamps are in hours, minutes, seconds, and nanoseconds, eg: “12:32:44.123456789”.
6. For all default values of 0 and spaces in the real time feeds, the value in CSV is blank, eg: “,,”, except as explicitly noted.
7. All symbols are expressed in NYSE Symbology.

3. Symbol Index Mapping Message (Msg Type 3)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of this message: 3 – Symbol Index Mapping Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
Symbol	3	ASCII	See NYSE Symbology Specification
Market ID	4	Numeric	ID of the Originating Market: • 1 – NYSE • 3 – NYSE Arca Equities • 4 – NYSE Arca Options • 5 – NYSE Bonds • 8 – NYSE Amex Options • 9 - NYSE American Equities • 10 - NYSE National Equities • 11 - NYSE Texas Equities
System ID	5	Numeric	ID of the originating matching engine server
Exchange Code	6	Alpha	Exchange where this symbol is listed: • 'N' – NYSE • 'P' – NYSE Arca • 'Q' – NASDAQ • 'A' – NYSE American • 'Z' – CBOE • 'F' – TXSE
Security Type	7	Alpha	Types of security for Pillar markets. • A - American Depositary Receipts • C - Common Stock • D - Debentures • E - Exchange Traded Funds • F - Foreign • H - American Depositary Shares • I - Units • L - Index Linked Notes • M - Other / Blank • O - Ordinary Shares • P - Preferred Stock • R - Rights • S - Shares of Beneficial Interest • T - Test • U - Closed End Fund • X - Index Securities

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			• W - Warrants
Lot Size	8	Numeric	Round lot size in shares
PrevClosePrice	9	Numeric	The previous day's closing price for this security
PrevCloseVolume	10	Numeric	The previous day's closing volume for the security
Price Resolution	11	Numeric	• 0 - All Penny • 1 - Penny/Nickel • 5 - Nickel/Dime
Round Lot	12	Alpha	Round Lots Accepted: • 'Y' – Yes • 'N' – No
MPV	13	Numeric	The minimum increment for a trade price, in 100ths of a cent. Typically 1, or $0.0001, but for some Tick Pilot stocks can be 500, or $0.05.
Unit of Trade	14	Numeric	The security Unit of Trade in shares. Valid values are 1, 10, 50 and 100.

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4. Security Status Message (Msg Type 34)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
MsgType	1	Numeric	The type of this message: 34 – Security Status Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The unique ID of this message in the sequence of messages published for this specific symbol
Security Status	6	ASCII	The new status that this security is transitioning to. The following are Halt Status Codes: • 4 - Trading Halt • 5 - Resume • 6 - Suspend The following are Short Sale Restriction Codes (published for all symbols traded on this exchange): • A – Short Sale Restriction Activated (Day 1) • C – Short Sale Restriction Continued (Day 2) • D - Short Sale Restriction Deactivated Market Session values : • P – Pre-opening • B - Begin accepting orders • E – Early session • O – Core session • L – Late session • X – Closed If this security is not halted at the time of a session change, the Halt Condition field = ~. If this security is halted on a session change, Halt Condition is non-~, and the security remains halted into the new session. The following values are the Price Indication values: • I – Price Indication • G – Pre-Opening Price Indication

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Halt Condition	7	ASCII	• Empty when not applicable • '~' - Security not delayed/halted • 'D' - News released • 'I' - Order imbalance • 'P' - News pending • 'M' – LULD pause • 'X' - Equipment changeover • 'Z' - No open/No resume • A - Additional Information Requested • C - Regulatory Concern • E - Merger Effective • F - ETF Component Prices Not Available • N - Corporate Action • O - New Security Offering • V - Intraday Indicative Value Not Available • 6 - Suspend Market Wide Circuit Breakers: • '1' - Market Wide Circuit Breaker Halt Level 1 • '2' - Market Wide Circuit Breaker Halt Level 2 • '3' - Market Wide Circuit Breaker Halt Level 3
Price 1	8	Numeric	• If securityStatus = 'A', then this is the SSR Triggering Trade Price • If securityStatus = 'G', then this is Pre-Opening Low Price Indication. • If securityStatus = 'I', then this is Low Price Indication • If securityStatus = 'R', then this is Rule 15 Low Indication Price. If none of the above, then this field is empty
Price 2	9	Numeric	• If securityStatus = 'I', then this is High Price Indication • If securityStatus = 'G', then this is Pre-Opening Price Indication If none of the above, then this field is empty
SSR Triggering Exchange ID	10	Alpha	Populated when securityStatus = 'A'. Empty when not populated. Valid Values are:

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			• ‘N’ – NYSE • ‘P’ – NYSE Arca • ‘C’ - NYSE National • ‘Q’ – NASDAQ • ‘A’ – NYSE American • ‘B’ – NASDAQ OMX BX • ‘C’ – NSX • ‘D’ – FINRA • ‘F’ – TXSE • ‘G’ - 24X • ‘I’ – ISE • ‘J’ – EDGA • ‘K’ – EDGX • ‘L’ - LTSE • ‘M’ – NYSE Texas • ‘S’ – CTS • ‘T’ – NASDAQ OMX • ‘V’ - IEX • ‘W’ – CBSX • ‘X’ – NASDAQ OMX PSX • ‘Y’ – CBOE BYX • ‘Z’ – CBOE BZX
SSR Triggering Volume	11	Numeric	This field is only populated when securityStatus = ‘A’ otherwise it’s empty
Time	12	Numeric	If securityStatus = ‘A’ , then this is SSR Trigger Time If none of the above, then this field is empty
SSRState	13	ASCII	Short Sale Restriction values: • ‘~’ – No Short Sale in Effect • ‘E’ – Short Sale Restriction in Effect If information not available, then this field is empty
MarketState	14	ASCII	Market State values: • ‘P’ – Pre-opening • ‘E’ – Early session • ‘O’ – Core session • ‘L’ – Late session (Non-NYSE only) • ‘X’ – Closed If information not avaliable, then this field is empty

5. Add Order Message – Msg Type 100

An Add Order message is published when a new visible order has been received and added to the book. The Order ID is assigned by the matching engine and is unique for this symbol for today only. It is unique across all markets, except that for NYSE Tape A symbols, it is only unique per matching engine instance.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 100 –Add Order Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	6	Numeric	The unique ID assigned by the matching engine to this order
Price	7	Numeric	The order price
Volume	8	Numeric	The order quantity in shares
Side	9	Alpha	The side of the order (Buy/Sell). Valid values: • 'B' – Buy • 'S' – Sell
FirmID	10	Alpha	The market participant's firm ID, or space-filled if firm ID was not specified
Reserved	11	Numeric	Defaulted to 0. Future use only.

6. Modify Order Message – Msg Type 101

A Modify Order message is sent when the price or volume of an order is changed due to an event other than a cancel-replace, or full or partial execution. The content of the price and volume fields represent the new values after modification.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 101 – Modify Order Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	6	Numeric	The unique ID assigned by the matching engine to the existing order to be modified
Price	7	Numeric	The new order price
Volume	8	Numeric	The new order quantity in shares
PositionChange	9	Numeric	Currently defaulted to 0. • 0 – Kept position in book • 1 –Lost position in book
Side	10	ASCII	The side of the order. Valid values: • 'B' - Buy • 'S' - Sell
Reserved 2	11	Numeric	Defaulted to 0. Future use only.

7. Delete Order Message – Msg Type 102

A Delete Order message is published when an order is taken off of the book for any reason except for full execution, in which case an Order Execution message is sent.

Immediately before a trading session changes (eg: Early session to Core session), all orders that were submitted for the current or current+previous sessions are explicitly deleted with a Delete Order message.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 102 – Delete Order Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	6	Numeric	The unique ID assigned by the matching engine to the order to be deleted
Reserved	7	Numeric	Defaulted to 0. Future use only.

8. Order Execution Message – Msg Type 103

An Order Execution message is sent when an order is partially or fully executed. The Volume field indicates the executed quantity. If the Price field is different from the price of the order, any remaining shares keep their original price. If the Volume field equals the number of shares previously remaining in the order, then the order has been fully executed and should be removed from the book. If the order has been partially executed, further Order Execution messages for this Order ID may be published.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 103 – Order Execution Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	6	Numeric	The unique ID assigned by the matching engine to the order that was partially or fully executed
TradeID	7	Numeric	Unique ID assigned by the matching engine to this execution. Used by any subsequent Trade Cancel message to identify this execution. Allows correlation of Executions to Trades.
Price	8	Numeric	The execution price
Volume	9	Numeric	The executed quantity in shares
PrintableFlag	10	Numeric	• 0 = Not Printed to the SIP • 1 = Printed to the SIP
Reserved 1	11	Numeric	Defaulted to 0. Future use only.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Trade Condition 1	12	ASCII	Settlement related conditions: • '@' – Regular Sale • 'C' – Cash
Trade Condition 2	13	ASCII	Trade Through Exemptions reasons: • '0x20' – N/A • 'F' – Intermarket Sweep Order • 'O' – Market Center Opening Trade • '5' – Market Center Reopening Trade • '6' – Market Center Closing Trade • '7" - Qualified Contingent Trade
Trade Condition 3	14	ASCII	Extended hours/sequencing related conditions: • '0x20' – N/A • 'T' – Extended Hours Trade • 'U' – Extended Hours Sold (Out of Sequence) • 'Z' – Sold
Trade Condition 4	15	ASCII	SRO Required Details: • '0x20' – N/A • 'I' – Odd Lot Trade • 'V' - Contingent Trade

9. Replace Order Message – Msg Type 104

A Replace Order message is published when a cancel/replace order is received and executed. The sitting order is replaced with a new one containing the same symbol, side and attribution, a new Order ID, and the price and size specified. The sitting order must be removed from the book and replaced with the new order.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 104 – Replace Order Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	6	Numeric	The unique ID assigned by the matching engine to the existing order to be replaced
NewOrderID	7	Numeric	The new Order ID of the replacement order
Price	8	Numeric	The new order price
Volume	9	Numeric	The new order quantity in shares
Side	10	ASCII	Side of the order. Valid values: • 'B' - Buy • 'S' - Sell
Reserved 2	11	Numeric	Defaulted to 0. Future use only.

10. Imbalance Message – Msg Type 105

Imbalance messages are sent periodically to update price and volume information during auctions. If there is no change to the calculated fields, no message will be generated. See *Appendix A: Information on Auctions* for details on the auction process in the NYSE, Arca, American and Texas markets.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 105 – Imbalance Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	5	ASCII	See NYSE Symbology Specification
SymbolSeqNum	6	Numeric	The sequence number of this message in the set of all messages for this symbol
ReferencePrice	7	Numeric	For Pillar-powered markets, the Reference Price is used to calculate the Indicative Match Price. See Information on Auctions for details. For NYSE Tape A symbols, the Reference Price is the Last Sale if the last sale is at or between the current best quote. Otherwise the Reference Price is the Bid Price if the last sale is lower than Bid price, or the Offer price if the last sale is higher than Offer price. (see Information on Auctions for details) When Auction Type = P, this field will be set to NYSE Last Sale.
PairedQty	8	Numeric	For non-NYSE markets, the number of shares paired off at the Indicative Match Price. For NYSE, the number of shares paired off at the Reference Price.
TotalImbalanceQty	9	Numeric	For non-NYSE markets, the total imbalance quantity at the Indicative Match Price. For NYSE, the total imbalance quantity at the Reference Price.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
MarketImbalanceQty	10	Numeric	The total market order imbalance quantity at the Indicative Match Price. When Auction Type=P (NYSE only), this field will be set to the Extreme Order Imbalance quantity. For NYSE, unused and defaulted to 0.
AuctionTime	11	Numeric	Projected Auction Time (hhmm)
AuctionType	12	Alpha	Valid Values: • 'O' – Early Opening Auction (non-NYSE only) • 'M' – Core Opening Auction • 'H' – Reopening Auction (Halt resume) • 'R' - Regulatory Imbalance (NYSE primaries only) • 'C' – Closing Auction • 'P' - Extreme Closing Order Imbalance - (NYSE primaries only)
ImbalanceSide	13	Alpha	The side of the TotalImbalanceQty • 'B' – Buy side • 'S' – Sell side • ' ' - space – No imbalance When Auction Type = 'P', this field will be set to Extreme Order Imbalance side
ContinuousBook ClearingPrice	14	Numeric	For non-NYSE markets, the price at which all interest on the book can trade, including auction and imbalance offset interest, and disregarding auction collars. For NYSE, the price closest to the reference price where the imbalance is 0. For regulatory imbalances, or if a continuous book clearing price is not reached, this field is defaulted to 0.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
AuctionInterestClearingPrice	15	Numeric	For non-NYSE markets, the price at which all eligible auction-only interest would trade, subject to auction collars. For the NYSE closing auction only, the price closest to the reference price where the imbalance of closing-only interest is 0. If a closing-only clearing price is not reached, this field is defaulted to 0.
SSRFilingPrice	16	Numeric	For non-NYSE markets, not supported and defaulted to 0. For NYSE non-Regulatory imbalances, if a Sell Short Restriction is in effect, the price at which Sell Short interest will be filed.
Indicative MatchPrice	17	Numeric	For non-NYSE markets, the price at which the highest number of shares would trade, subject to auction collars. It includes the non-displayed quantity of Reserve Orders. See Information on Auctions for details. For NYSE, set to 0.
UpperCollar	18	Numeric	If the IndicativeMatchPrice is not strictly between the UpperCollar and the LowerCollar, special auction rules apply. See Rule 7.35P for details. For NYSE, set to 0
LowerCollar	19	Numeric	If the IndicativeMatchPrice is not strictly between the UpperCollar and the LowerCollar, special auction rules apply. See Rule 7.35P for details. For NYSE, set to 0
AuctionStatus	20	Numeric	Indicates whether the auction will run • 0 - Will run as always for Open and Close • 1 - Will run, interest exists inside the collars or interest is fully paired off • 2 - Will not run because there is an imbalance at or through the collars • 3 - Will not run, will transition to the Closing auction instead
FreezeStatus	21	Numeric	• 0 - Imbalance freeze not yet in effect • 1 - Imbalance freeze is in effect

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
NumExtensions	22	Numeric	Number of times the halt period has been extended. For NYSE, set to 0
UnPaired Quantity	23	Numeric	For NYSE only, during the Closing Auction, the number of unpaired shares priced at or better than the Reference Price. For non-NYSE markets, 0.
Unpaired Side	24	Alpha	The side of the Unpaired Quantity • B – Buy • S – Sell • Space – not applicable
Significant Imbalance	25	Alpha	Future use by NYSE only.

11. Add Order Refresh Message – Msg Type 106

The Add Order Refresh message can be sent in either of two contexts:

1) If a client sends a Refresh Request to the Request Controller, an Add Order Refresh message is sent over the Refresh channels as part of the refresh response for every order currently sitting on the book.
2) If a primary XDP Publisher fails over to the backup, for every symbol, the backup sends a Symbol Clear message followed by a full refresh, which includes an Add Order Refresh message for every order currently sitting on the book of the symbol.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 106 – Add Order Refresh Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	5	ASCII	See NYSE Symbology Specification
SymbolSeqNum	6	Numeric	The sequence number of this message in the set of all messages for this symbol
OrderID	7	Numeric	The unique ID assigned by the matching engine to this order
Price	8	Numeric	The order price
Volume	9	Numeric	The order quantity in shares
Side	10	Alpha	The side of the order (Buy/sell). Valid values: • 'B' – Buy • 'S' – Sell
FirmID	11	ASCII	The participant's firm ID, or spaces if firm ID was not specified
Reserved	12	Numeric	Future use. Defaulted to 0.

12. Non-Displayed Trade Message – Msg Type 110

A Non Displayed Trade message is sent as a result of a match between two non-displayed orders.

Customers who are only interested in building a book of displayed orders may safely ignore Non-Displayed Trade messages. Customers who are creating statistics or displays requiring the full record of trades in this market will need to process Non-Displayed Trade messages.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 110 – Non-Displayed Trade Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
TradeID	6	Numeric	Unique ID assigned by the matching engine to this trade event. Used by any subsequent Trade Cancel message to identify this execution.
Price	7	Numeric	The execution price
Volume	8	Numeric	Volume of the trade in shares
PrintableFlag	9	Numeric	• 0 = Not Printed to the SIP • 1 = Printed to the SIP
Trade Condition 1	10	Ascii	Settlement related conditions: • '@' – Regular Sale • 'C' – Cash
Trade Condition 2	11	Ascii	Trade Through Exemptions reasons: • '0x20' – N/A • 'F' – Intermarket Sweep Order • 'O' – Market Center Opening Trade • '5' – Market Center Reopening Trade • '6' – Market Center Closing Trade • '7" - Qualified Contingent Trade

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Trade Condition 3	12	Ascii	Extended hours/sequencing related conditions: • ‘0x20’ – N/A • ‘T’ – Extended Hours Trade • ‘U’ – Extended Hours Sold (Out of Sequence) • ‘Z’ – Sold
Trade Condition 4	13	Ascii	SRO Required Details: • ‘0x20’ – N/A • ‘I’ – Odd Lot Trade • ‘V’ - Contingent Trade

13. Cross Trade Message – Msg Type 111

A Cross Trade message is published on completion of a crossing auction, and shows the bulk volume that traded in the auction. The Reason Code field indicates the auction type. Additionally, a non-printable Order Execution or Trade message will be published for each order that traded.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 111 – Cross Trade Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
CrossID	6	Numeric	Unique identifier for this Cross Trade. Used in Cross Correction message to identify the Cross Trade to correct
Price	7	Numeric	The execution price
Volume	8	Numeric	Volume executed in shares
CrossType	9	ASCII	Reason for the crossing auction. Valid values: • 'E' – Market Center Early Opening Auction • 'O' – Market Center Opening Auction • '5' – Market Center Reopening Auction • '6' – Market Center Closing Auction

14. Trade Cancel Message – Msg Type 112 and 221

In the event that an earlier trade has been reported in error, a Trade Cancel message is sent. This occurs whether the initial report was an Order Execution or a Non-Displayed Trade message.

Note that since Trade Cancel messages only affect trades that occurred in the past, customers who are only interested in building a book may safely ignore them.

Customers who are building a complete record of today's trades should remove the cancelled trade from their records and subtract its volume from any statistics.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: • 112 – Trade Cancel for TAQ Integrated • 221 – Trade Cancel for TAQ Trades
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
TradeID	6	Numeric	The TradeID of the original Trade or Execution message to be cancelled

15. Cross Correction Message – Msg Type 113

In the event that an earlier Cross Trade has been reported in error, a Cross Correction message is sent.

Note that since Cross Correction messages only affect cross auctions that occurred in the past, customers who are only interested in building a book may safely ignore them.

Customers who are building a complete record of today's volume should remove the previously reported volume from their statistics and add the volume of the Cross Correction to them.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 113 – Cross Correction Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
CrossID	6	Numeric	The CrossID of the original Cross Trade message to be corrected
Volume	7	Numeric	The corrected volume of Cross Trade message

16. Retail Price Improvement Message – Msg Type 114

Published when RPI interest (hidden retail price improvement interest) is added or removed between the best bid and best offer price. When all RPI interest for this security is removed from the book, An RPI message with RPIIndicator = ‘ ‘ (space character) is published.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 114 – Retail Price Improvement Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Binary	The sequence number of this message in the set of all messages for this symbol
RPIIndicator	6	ASCII	The side(s) where Retail Price Improvement orders (RPI orders) exist. Valid values correspond to CQS values: • ‘ ’ – Space means no retail interest (default) • A – Retail interest on the bid side • B – Retail interest on the offer side • C – Retail interest on the bid and offer sides

17. Quote Message – Msg Type 140

A quote message is sent when any event results in a new top of book value on either side of the market.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Binary	The type of message: 140 – Quote Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	5	ASCII	See NYSE Symbology Specification
SymbolSeqNum	6	Numeric	The symbol sequence number
Ask Price	7	Numeric	The Ask price.
Ask Volume	8	Numeric	The aggregate round lot size at the ask price, in shares.
Bid Price	9	Numeric	The Bid price
Bid Volume	10	Numeric	The aggregate round lot size at the bid price, in shares.
Quote Condition	11	ASCII	All markets • 'R' - Regular Quote NYSE Tape A symbols only • 'O' - Opening Quote (1st quote of the day) At the scheduled closing time, NYSE publishes an R-quote with prices and volumes set to 0.
RPI Indicator	12	ASCII	The side(s) where Retail Price Indication (RPI orders) exist. Valid values are: • ' ' – Space means no Retail Interest (Default) • 'A' – Retail Interest on Bid Quote • 'B' – Retail Interest on Offer Quote • 'C' – Retail Interest on both the Bid and Offer Quote

18. TRF Fractional Trade Message – Msg Type 210

XDP TAQ Trades for TRF will log the TRF Fractional Trade Message (Msg Type 210).

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Message Type	1	Numeric	210 - Representing TRF Fractional Trade message
Sequence Number	2	Numeric	Sequence number value received in the msg seq num field of the msg Header. This represents the msg seq # assigned by XDP for the TRF Trade message
Source Time	3	HH:MM:SS. nnnnnnnnn	Source Time is produced from the following input fields on the TRF Trade message in nano-sec granularity: - Source Time - Source Time NS This is the trade timestamp from the matching engine.
Symbol	4	String	Symbol in NYSE Symbology. Symbol Index received on TRF Trade message is looked up against the Symbol Index Mapping message (msg type 3) to derive symbol.
Symbol Seq Num	5	Numeric	The symbol sequence number.
TradeID	6	Numeric	TradeID from TRF Trade message. TradeID is unique per symbol.
Price	7	Decimal	Price of the TRF Trade.
FractionalVolume	8	Numeric	The volume of the trade in shares, inclusive of any fractional quantity. Implied scale is 6. For example: • 123456 = 0.123456 share • 1000000 = 1.000000 share • 1230000 = 1.230000 shares
Trade Cond1	9	String	Settlement related conditions. Valid values:

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			• @ – Regular Sale (Arca, American, National, Texas and NYSE) • ‘C’ – Cash (TRF or Texas only) • ‘ ’ – (space) Regular Sale (TRF only) • ‘R’ – Seller (TRF only)
Trade Cond2	10	String	The reason for Trade Through Exemptions. Valid values: • ‘ ’ – N/A (0x20) • ‘F’ – Intermarket Sweep Order • ‘O’ – Market Center Opening Trade • ‘4’ – Derivatively priced (TRF only) • ‘5’ - Reopening Trade • ‘6’ – Market Center Closing Trade • ‘7’ – Qualified Contingent Trade (TRF or Texas only) • ‘9’ - Corrected Consolidated Close
Trade Cond3	11	String	Extended hours/sequencing related conditions. Valid values: • ‘ ’ – (space, or 0x20) N/A • ‘T’ – Extended Hours Trade • ‘U’ – Extended Hours Sold (Out of Sequence) • ‘Z’ – Sold
Trade Cond4	12	String	SRO Required Detail. Valid values: • ‘ ’– (space, or 0x20) N/A • ‘I’ – Odd Lot Trade • ‘M’ – Official Closing Price • ‘Q’ – Official Open Price • ‘V’ – Contingent Trade • ‘P’ – Prior Reference Price (TRF or Texas only) • ‘W’ – Weighted Average Price (TRF only)
ExecDayTime	13	Binary	The date and time when this Trade occurred at the participant firm, in seconds since Jan 1, 1970 00:00:00 UTC.
ExecDayTimeNS	14	Binary	The nanosecond offset from the ExecutionDayTime.

19. TRF Fractional Trade Correction Message – Msg Type 212

XDP TAQ Trades for TRF will log the TRF Fractional Trade Correction Message (Msg Type 212).

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Message Type	1	Numeric	212 - Representing TRF Fractional Trade Correction message
Sequence Number	2	Numeric	Sequence number value received in the msg seq num field of the msg Header. This represents the msg seq # assigned by XDP for the TRF Trade Correction message
Source Time	3	HH:MM:SS.nnnnnnnnn	Source Time is produced from the following input fields on the TRF Trade Correction message in nano-sec granularity: - Source Time - Source Time NS This is the trade correction timestamp from the matching engine.
Symbol	4	String	See NYSE Symbology Specification
Symbol Seq Num	5	Numeric	The sequence number of this message in the set of all messages for this symbol
Original TradeID	6	Numeric	The original TradeID of the Trade message being corrected.
TradeID	7	Numeric	The TradeID of the corrected Trade message.
Price	8	Decimal	The corrected price of the Trade. Use the Price scale from the Symbol Index Mapping message.
FractionalVolume	9	Numeric	The volume of the trade in shares, inclusive of any fractional quantity. Implied scale is 6. For example: • 123456 = 0.123456 share • 1000000 = 1.000000 share • 1230000 = 1.230000 shares

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Trade Cond-1	10	String	Settlement related conditions. Valid values: • @ – Regular Sale (Arca, American, National, Texas and NYSE) • ‘C’ – Cash (TRF or Texas only) • ‘ ’ – (space) Regular Sale (TRF only) • ‘R’ – Seller (TRF only)
Trade Cond-2	11	String	The reason for Trade Through Exemptions. Valid values: • ‘ ’ – N/A (0x20) • ‘F’ – Intermarket Sweep Order • ‘O’ – Market Center Opening Trade • ‘4’ – Derivatively priced (TRF only) • ‘5’ - Reopening Trade • ‘6’ – Market Center Closing Trade • ‘7’ – Qualified Contingent Trade (TRF or Texas only) • ‘9’ - Corrected Consolidated Close
Trade Cond-3	12	String	Extended hours/sequencing related conditions. Valid values: • ‘ ’ – (space, or 0x20) N/A • ‘T’ – Extended Hours Trade • ‘U’ – Extended Hours Sold (Out of Sequence) • ‘Z’ – Sold
Trade Cond-4	13	String	SRO Required Detail. Valid values: • ‘ ’– (space, or 0x20) N/A • ‘I’ – Odd Lot Trade • ‘M’ – Official Closing Price • ‘Q’ – Official Open Price • ‘V’ – Contingent Trade • ‘P’ – Prior Reference Price (TRF or Texas only) • ‘W’ – Weighted Average Price (TRF only)
ExecDayTime	14	Binary	The date and time when this Trade occurred at the participant firm, in seconds since Jan 1, 1970 00:00:00 UTC.
ExecDayTimeNS	15	Binary	The nanosecond offset from the ExecutionDayTime.

20. TRF Fractional Prior Day Trade Message – Msg Type 213

XDP TAQ Trades for TRF will log the TRF Fractional Prior Day Trade Message (Msg Type 213).

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Message Type	1	Numeric	213 - Representing TRF Fractional Prior Day Trade message
Sequence Number	2	Numeric	Sequence number value received in the msg seq num field of the msg Header. This represents the msg seq # assigned by XDP for the TRF Prior Day Trade message
Source Time	3	HH:MM:SS. nnnnnnnnn	Source Time is produced from the following input fields on the TRF Prior Day Trade message in nano-sec granularity: Source Time and Source Time NS This is the timestamp from the matching engine when the Prior Day Trade message was generated.
Prior Day Time	4	String	Prior Day time is produced from the following input fields on the TRF Prior Day Trade message in nano-sec granularity: - Prior Day Time - Prior Day Time NS This is the participant input time when the trade was originally generated prior day.
Symbol	5	Numeric	Symbol in NYSE Symbology. Symbol Index received on TRF Prior Day Trade message (msg type 218) is looked up against the Symbol Index Mapping message (msg type 3) to derive symbol.
Symbol Seq Num	6	Numeric	Symbol Sequence Number on TRF Prior Day Trade message (msg type 218).
TradeID	7	Decimal	TradeID of the TRF Prior Day Trade message. TradeID is unique per symbol.
Price	8	Numeric	Price of the Trade from the TRF Prior Day Trade message. Price scale code from the Symbol Index Mapping message is applied to the price on msg type 218 and actual price published on the TAQ Trades messages.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			(Price scale code is not provided as-is on the Symbol Index Mapping message)
FractionalVolume	9	String	The volume of the trade in shares, inclusive of any fractional quantity. Implied scale is 6. For example: • 123456 = 0.123456 share • 1000000 = 1.000000 share • 1230000 = 1.230000 shares
Trade Cond-1	10	String	Settlement related conditions. Valid values: • @ – Regular Sale (Arca, American, National, Texas and NYSE) • 'C' – Cash (TRF or Texas only) • ' ' – (space) Regular Sale (TRF only) • 'R' – Seller (TRF only)
Trade Cond-2	11	String	The reason for Trade Through Exemptions. Valid values: • ' ' – N/A (0x20) • 'F' – Intermarket Sweep Order • 'O' – Market Center Opening Trade • '4' – Derivatively priced (TRF only) • '5' - Reopening Trade • '6' – Market Center Closing Trade • '7' – Qualified Contingent Trade (TRF or Texas only) • '9' - Corrected Consolidated Close
Trade Cond-3	12	String	Extended hours/sequencing related conditions. Valid values: • ' ' – (space, or 0x20) N/A • 'T' – Extended Hours Trade • 'U' – Extended Hours Sold (Out of Sequence) • 'Z' – Sold
Trade Cond-4	13	String	SRO Required Detail. Valid values: • ' '– (space, or 0x20) N/A • 'I' – Odd Lot Trade • 'M' – Official Closing Price • 'Q' – Official Open Price • 'V' – Contingent Trade • 'P' – Prior Reference Price (TRF or Texas only)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			• ‘W’ – Weighted Average Price (TRF only)

21. TRF Fractional Prior Day Trade Cancel Message – Msg Type 214

XDP TAQ Trades for TRF will log the TRF Fractional Prior Day Trade Cancel Message (Msg Type 214).

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Message Type	1	Numeric	214 - Representing TRF Fractional Prior Day Trade Cancel message
Sequence Number	2	Numeric	Sequence number value received in the msg seq num field of the msg Header. This represents the msg seq # assigned by XDP for the TRF Trade cancel message
Source Time	3	HH:MM:SS.nnnnnnnnn	Source Time is produced from the following input fields on the TRF Trade cancel message in nano-sec granularity: - Source Time - Source Time NS This is the trade cancel timestamp from the matching engine.
Prior Day Time	4	HH:MM:SS.nnnnnnnnn	Prior Day time is produced from the following input fields on the TRF Prior Day Trade Cancel message in nano-sec granularity: - Prior Day Time - Prior Day Time NS This is the participant input time when the trade cancel was originally generated prior day.
Symbol	5	String	Symbol in NYSE Symbology. Symbol Index received on TRF Prior Day Trade cancel message is looked up against the Symbol Index Mapping message (msg type 3) to derive symbol.
Symbol Seq Num	6	Numeric	Symbol Sequence Number on TRF Prior Day trade cancel message.
TradeID	7	Numeric	TradeID from TRF Prior day Trade cancel message.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Price	8	Decimal	Price of the Original Trade from the TRF Prior Day Trade Cancel message. Price scale code from the Symbol Index Mapping message is applied to the price and actual price is published. (Price scale code is not provided as-is on the Symbol Index Mapping message)
FractionalVolume	9	Numeric	The volume of the trade in shares, inclusive of any fractional quantity. Implied scale is 6. For example: • 123456 = 0.123456 share • 1000000 = 1.000000 share • 1230000 = 1.230000 shares

22. TRF Trade Cancel Message – Msg Type 216

XDP TAQ Trades for TRF will log the TRF Trade Cancel Message (Msg Type 216). The Structure will be the same as the existing NYSE Trades Cancel Message - Msg Type 221.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Message Type	1	Numeric	216 - Representing TRF Trade Cancel message
Sequence Number	2	Numeric	Sequence number value received in the msg seq num field of the msg Header. This represents the msg seq # assigned by XDP for the TRF Trade cancel message
Source Time	3	HH:MM:SS. nnnnnnnnn	Source Time is produced from the following input fields on the TRF Trade cancel message in nano-sec granularity: - Source Time - Source Time NS This is the trade cancel timestamp from the matching engine.
Symbol	4	String	See NYSE Symbology Specification
Symbol Seq Num	5	Numeric	The sequence number of this message in the set of all messages for this symbol
TradeID	6	Numeric	The TradeID of the original TRF Trade Execution message to be cancelled

23. Trade Message – Msg Type 220

A Trade message is sent when there is an execution on the order book. For more detail, see the Overview.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 220 – Trade Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS.nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
SymbolSeqNum	5	Numeric	The sequence number of this message in the set of all messages for this symbol
TradeID	6	Numeric	Unique identifier for this trade
Price	7	Numeric	The price of the Trade
Volume	8	Numeric	The volume of the trade in shares.
TradeCond1	9	ASCII	Settlement related conditions. Valid values: • @ – Regular Sale (Arca, American, National, Texas and NYSE) • 'C' – Cash (TRF or Texas only) • ' ' – (space) Regular Sale (TRF only) • 'R' – Seller (TRF only)
TradeCond2	10	ASCII	The reason for Trade Through Exemptions. Valid values: • ' ' – N/A (0x20) • 'F' – Intermarket Sweep Order • 'O' – Market Center Opening Trade • '4' – Derivatively priced (TRF only) • '5' - Reopening Trade • '6' – Market Center Closing Trade • '7' – Qualified Contingent Trade (TRF or Texas only) • '9' - Corrected Consolidated Close
TradeCond3	11	ASCII	Extended hours/sequencing related conditions. Valid values: • ' ' – (space, or 0x20) N/A • 'T' – Extended Hours Trade • 'U' – Extended Hours Sold (Out of Sequence)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			• 'Z' – Sold
TradeCond4	12	ASCII	SRO Required Detail. Valid values: • ' '– (space, or 0x20) N/A • 'I' – Odd Lot Trade • 'M' – Official Closing Price • 'Q' – Official Open Price • 'V' – Contingent Trade • 'P' – Prior Reference Price (TRF or Texas only) • 'W' – Weighted Average Price (TRF only)

24. Trade Correction Message – Msg Type 222

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 222 – Trade Correction Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	5	ASCII	See NYSE Symbology Specification
SymbolSeqNum	6	Numeric	The symbol sequence number
OriginalTradeID	7	Numeric	The original TradeID of the Trade message being corrected
TradeID	8	Numeric	The TradeID of the corrected Trade message
Price	9	Numeric	The corrected price of the Trade
Volume	10	Numeric	The corrected volume of the trade in shares
TradeCond1	9	ASCII	Settlement related conditions. Valid values: • @ – Regular Sale (Arca, American, National, Texas and NYSE) • 'C' – Cash (TRF or Texas only) • ' ' – (space) Regular Sale (TRF only) • 'R' – Seller (TRF only)
TradeCond2	10	ASCII	The reason for Trade Through Exemptions. Valid values: • ' ' – N/A (0x20) • 'F' – Intermarket Sweep Order • 'O' – Market Center Opening Trade • '4' – Derivatively priced (TRF only) • '5' - Reopening Trade • '6' – Market Center Closing Trade • '7' – Qualified Contingent Trade (TRF or Texas only) • '9' - Corrected Consolidated Close

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
TradeCond3	11	ASCII	Extended hours/sequencing related conditions. Valid values: • ‘ ’ – (space, or 0x20) N/A • ‘T’ – Extended Hours Trade • ‘U’ – Extended Hours Sold (Out of Sequence) • ‘Z’ – Sold
TradeCond4	12	ASCII	SRO Required Detail. Valid values: • ‘ ’– (space, or 0x20) N/A • ‘I’ – Odd Lot Trade • ‘M’ – Official Closing Price • ‘Q’ – Official Open Price • ‘V’ – Contingent Trade • ‘P’ – Prior Reference Price (TRF or Texas only) • ‘W’ – Weighted Average Price (TRF only)

25. Stock Summary Message – Msg Type 223

On the Stock Summary channel (a separate channel from the main trades feed), a Stock Summary message per symbol is sent every 60 seconds. The message is sent regardless of whether there has been a change to the symbol in the last 60 seconds or not. In the event there is no volume on the stock, the trade summary message will not be disseminated.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
Msg Type	1	Numeric	The type of message: 223 – Stock Summary Message
SequenceNumber	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
SourceTime	3	HH:MM:SS. nnnnnnnnn	Timestamp of the matching engine event that resulted in this message, with nanosecond accuracy
Symbol	4	ASCII	See NYSE Symbology Specification
HighPrice	5	Numeric	The exchange high price of this stock for the day
LowPrice	6	Numeric	The exchange Low price of this stock for the day
Open	7	Numeric	The exchange Opening price of this stock for the day
Close	8	Numeric	The exchange Closing price of this stock for the day
TotalVolume	9	Numeric	The exchange cumulative volume for the stock throughout the day

25.1 NYSE AUCTIONS

The NYSE market conducts auctions for NYSE-listed (Tape A) symbols only. The NYSE market does not publish imbalances for IPO or Direct Listing symbols.

As a part of the auction process, Imbalance messages are published every second if there is any change from the previous second.

AUCTION TYPE	DESCRIPTION
Opening Auction (M) **and** **Re-Opening Auction (H)**	**Interest Included** ▪ All electronic interest eligible to trade in the opening auction ▪ DMM interest as needed to offset the imbalance **Order Cancellation** ▪ Orders can be cancelled at any time up to the conclusion of the auction **Reference Price Calculation** First, a provisional ref price is calculated, then the Reference Price is calculated from that. The provisional ref price is: ▪ The consolidated last sale price if there is one ▪ The previous close price If there is no consolidated last sale The Reference Price is: ▪ The provisional ref price if no Mandatory Indication has been published ▪ The provisional ref price if it is within the indication range ▪ The indication low price if it is higher than the provisional ref price ▪ The indication high price it is lower than the provisional ref price

Closing Auction (C)	**Interest Included**
	▪ For Paired Quantity, Unpaired Quantity, and Total Imbalance Quantity:
	    o MOC and LOC orders
	    o Imbalance offset orders
	    o Closing D orders
	▪ For Continuous Book Clearing Price:
	    o All electronic interest eligible to trade in the closing auction
	    o DMM interest as needed to offset the imbalance
	▪ For Auction Interest Clearing Price:
	    o MOC and LOC orders
	    o Imbalance offset orders

AUCTION TYPE	DESCRIPTION
	Order Cancellation ▪ Orders can be cancelled any time during the auction period, except for MOC and LOC orders and Imbalance offset orders, which can be cancelled only up to 2 minutes before the scheduled auction closing time. **Reference Price Calculation** The Reference Price is: ▪ The NYSE last sale if it is at or within the NYSE best quote ▪ The NYSE best bid if the NYSE best bid is higher than the NYSE last sale ▪ The NYSE best offer if the NYSE best offer is lower than the NYSE last sale
Regulatory Closing Auction (R)	**Interest Included** ▪ MOC and LOC orders **Reference Price Calculation** ▪ The Reference Price is the NYSE last sale.
Extreme Imbalance Closing Auction (P)	**Interest Included** ▪ All electronic interest eligible to trade in the closing auction **Reference Price Calculation** ▪ The Reference Price is the NYSE last sale.

25.2 NYSE ARCA / NYSE AMERICAN AND NYSE TEXAS AUCTIONS

Three single-price auctions are conducted during the day: the Early Opening Auction, the Core Opening Auction and the Closing Auction. As a part of the auction process, the reference price, indicative match price, matched volume, total imbalance, and market imbalance are disseminated every second if there is any change from the previous second.

The NYSE American market conducts auctions for NYSE American primary securities only.

The NYSE Texas market conducts auctions for NYSE Texas primary securities only.

The NYSE Arca market conducts auctions on all securities.

This appendix covers normal cases. For full detail on exception cases, see Rule 7.35P.

Indicative Match Price Details

- The Indicative Match Price is the price that maximizes executable volume of auction-eligible shares, subject to Auction Collars.
- It includes the non-displayed quantity of Reserve Orders.
- If two or more prices maximize executable volume equally, in an effort to maintain continuity, the Indicative Match Price is whichever price is closest to the Reference Price.
- The final auction execution price is the Indicative Match Price at auction time.

Imbalance Calculation

AUCTION TYPE	DESCRIPTION
Early Opening Auction	**Interest Included** 1. Limit Orders designated for the Early Trading Session. 2. During the last minute before the Early Opening Auction time, the non-displayed quantity of Reserve Orders designated for the Early Open Auction is included in the Matched Volume and Total Imbalance Volume. **Order Cancellation** Orders can be cancelled at any time up to the conclusion of the auction. **Reference Price** ▪ The Reference Price is normally the listing market's previous Official Closing Price. See Rule 7.35P for full detail. Unexecuted session 1 eligible orders become eligible for the Early Session immediately upon conclusion of the Early Opening Auction.
Core Opening and Re-Opening Auctions	**Interest Included** 1. Limit, Market, MOO, LOO and Primary Peg orders 2. During the last 5 seconds before the Core Opening Auction time, the non-displayed quantity of Reserve Orders is included in the Matched Volume and Total Imbalance Volume. **Order Cancellation** Orders can be cancelled any time during the auction, except for MOO and LOO orders which can be cancelled only up to 1 minute before the conclusion of the auction. **Reference Price** ▪ The Reference Price is normally the midpoint of the NBBO. See Rule 7.35P for full detail.
Closing Auction	**Interest Included** 1. Limit, Market, MOC, LOC and Primary Peg orders 2. During the last minute before the Closing Auction time, the non-displayed quantity of Reserve Orders is included in the Matched Volume and Total Imbalance Volume. **Reference Price** ▪ The Reference Price is normally the Consolidated Tape last sale. If the price closest to the Reference Price would trade through the exchange book, the indicative match price will be the best price available where no trade through occurs. See Rule 7.35P for full detail.

25.3 IMBALANCE MESSAGE PUBLICATION TIMES

For all markets, the initial publication of Symbol Index Mapping messages occurs shortly after feed start time. Feed start time commences at 2:00am ET in a staggered manner across all markets.

Please refer to the online calendar for Market times and early close days.

NYSE National does not conduct auctions.

Trading halts and re-opens can occur anytime during any session. Trading halts can last from one session into the next.

Regularly scheduled auctions occur at the following times. (All times are in US Eastern Time).

DESCRIPTION	MARKET	SECURITIES	NORMAL AUCTION PERIOD
Early Opening Auction	Arca	All auction eligible securities.	3:30am - 4:00am ET
	American Texas	All primary listed securities.	6:30am - 7:00am ET
Core Opening Auction	Arca American Texas	All primary listed securities.	8:00am - 9:30am ET
	NYSE	All primary listed securities.	8:00am - until the security opens
Closing Auction	Arca	All auction eligible securities.	3:00pm - 4:00pm ET
	American Texas	All primary listed securities.	3:00pm - 4:00pm ET
	NYSE	All primary listed securities.	3:50pm - until the security closes

25.4 SFTP DIRECTORY STRUCTURE

Using the NYSE Managed File Transfer infrastructure, TAQ files are accessible as follows by navigating to the desired path below:

PRODUCT	FILE PATH AND NAME
Integrated Feed files + Stock Summary *EXCH* **can be** **NYSE** **AMEX** **ARCA** **NATIONAL** **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	**Markets / Tapes:** EQY_US_EXCH_IBF/ EQY_US_EXCH_IBF_YYYY/ EQY_US_EXCH_IBF_YYYYMM/ EQY_US_EXCH_IBF_1_YYYYMMDD.GZ … EQY_US_EXCH_IBF_X*_YYYYMMDD.GZ **From Nov. 20, 2017 to Q3 2019 for NYSE Tape A only:** EQY_US_EXCH_IBF/ EQY_US_EXCH_IBF_YYYY/ EQY_US_EXCH_IBF_YYYYMM/ EQY_US_EXCH_IBF_1A_YYYYMMDD.GZ … EQY_US_EXCH_IBF_4A_YYYYMMDD.GZ EQY_US_EXCH_STOCKSUM/ EQY_US_EXCH_STOCKSUM_YYYY/ EQY_US_EXCH_STOCKSUM_YYYYMM/ EQY_US_EXCH_STOCKSUM_YYYYMMDD.GZ
BBO *EXCH* **can be** **NYSE** **AMEX** **ARCA** **NATIONAL** **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	EQY_US_TAQ_EXCH_BBO/ EQY_US_TAQ_EXCH_BBO_YYYY/ EQY_US_TAQ_EXCH_BBO_YYYYMM/ EQY_US_TAQ_EXCH_BBO_1_YYYYMMDD.GZ … EQY_US_TAQ_EXCH_BBO_X*_YYYYMMDD.GZ

Trades **Trades files +** **Stock Summary** *EXCH* **can be** **NYSE** **AMEX** **ARCA** **NATIONAL** **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	EQY_US_TAQ_EXCH_TRADES/ EQY_US_TAQ_EXCH_TRADES_YYYY/ EQY_US_TAQ_EXCH_TRADES_YYYYMM/ EQY_US_TAQ_EXCH_TRADES_1_YYYYMMDD.GZ … **EQY_US_TAQ_EXCH_TRADES_X*_YYYYMMDD.GZ** EQY_US_TAQ_NYSE_TRADES_TRF_YYYYMMDD.GZ (NOTE: THIS FILE IS ONLY AVAILABLE FOR THE NYSE MARKET) EQY_US_EXCH_STOCKSUM/ EQY_US_EXCH_STOCKSUM_YYYY/ EQY_US_EXCH_STOCKSUM_YYYYMM/ EQY_US_EXCH_STOCKSUM_YYYYMMDD.GZ
Imbalances **1 file** *EXCH* **can be** **NYSE** **AMEX** **ARCA** **TEXAS**	EQY_US_EXCH_REF_IMBALANCES/ EQY_US_EXCH_REF_IMBALANCES_YYYY/ EQY_US_EXCH_REF_IMBALANCES_YYYYMM/ EQY_US_EXCH_REF_IMBALANCES_YYYYMMDD.GZ Files prior to 20180806 can be found in the same directory but are broken out into multiple files. From 20120130 to 20180803: EQY_US_ARCA_REF_IMBALANCES/ EQY_US_ARCA_REF_IMBALANCES_YYYY/ EQY_US_ARCA_REF_IMBALANCES_YYYYMM/ EQY_US_ARCA_REF_IMBALANCES_1_YYYYMMDD.GZ/ … EQY_US_ARCA_REF_IMBALANCES_4_YYYYMMDD.GZ/ From 20180102 to 20180803: EQY_US_ARCA_REF_IMBALANCES/ EQY_US_ARCA_REF_IMBALANCES_YYYY/ EQY_US_ARCA_REF_IMBALANCES_YYYYMM/ EQY_US_ARCA_REF_IMBALANCES_1_YYYYMMDD.GZ/ … EQY_US_ARCA_REF_IMBALANCES_8_YYYYMMDD.GZ/

25.5 AWS S3 DIRECTORY STRUCTURE

Using the AWS S3 infrastructure, TAQ files are accessible as follows by navigating to the desired path below:

PRODUCT	FILE PATH AND NAME
Integrated Feed files + Stock Summary *EXCH* **can be** **NYSE** **AMEX** **ARCA** **NATIONAL** **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	**PARENT DIRECORIES BY MARKET -** **NYSE:** 9_TAQ_NYSE_INTEGRATED/ **AMEX:** 13_TAQ_NYSE_AMERICAN_INTEGRATED/ **ARCA:** 7_TAQ_NYSE_ARCA_INTEGRATED/ **NATIONAL:** 15_TAQ_NYSE_NATIONAL_INTEGRATED/ **TEXAS:** 43_TAQ_NYSE_TEXAS_INTEGRATED/ **SUB-DIRECTORIES -** **Pillar-Powered Markets / Tapes:** EQY_US_EXCH_IBF/ EQY_US_EXCH_IBF_YYYY/ EQY_US_EXCH_IBF_YYYYMM/ EQY_US_EXCH_IBF_1_YYYYMMDD.GZ … EQY_US_EXCH_IBF_X*_YYYYMMDD.GZ **From Nov. 20, 2017 to Q3 2019 for NYSE Tape A only:** EQY_US_EXCH_IBF/ EQY_US_EXCH_IBF_YYYY/ EQY_US_EXCH_IBF_YYYYMM/ EQY_US_EXCH_IBF_1A_YYYYMMDD.GZ … EQY_US_EXCH_IBF_4A_YYYYMMDD.GZ EQY_US_EXCH_STOCKSUM/ EQY_US_EXCH_STOCKSUM_YYYY/ EQY_US_EXCH_STOCKSUM_YYYYMM/ EQY_US_EXCH_STOCKSUM_YYYYMMDD.GZ
BBO *EXCH* **can be** **NYSE** **AMEX** **ARCA**	**PARENT DIRECTORIES BY MARKET -** **NYSE:** 23_TAQ_NYSE_BBO/ **AMEX:** 26_TAQ_NYSE_AMERICAN_BBO/ **ARCA:** 25_TAQ_NYSE_ARCA_BBO/ **NATIONAL:** 27_TAQ_NYSE_NATIONAL_BBO/ **TEXAS:** 44_TAQ_NYSE_TEXAS_BBO/

NATIONAL **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	**SUB-DIRECTORIES -** EQY_US_TAQ_EXCH_BBO/ EQY_US_TAQ_EXCH_BBO_YYYY/ EQY_US_TAQ_EXCH_BBO_YYYYMM/ EQY_US_TAQ_EXCH_BBO_1_YYYYMMDD.GZ … EQY_US_TAQ_EXCH_BBO_X*_YYYYMMDD.GZ
Trades **Trades files +** **Stock Summary** *EXCH* **can be** **NYSE** **AMEX** **ARCA** **NATIONAL** **TEXAS** *X* refer to Section 1.3 for number of files per each respective market*	**PARENT DIRECTORIES BY MARKET -** **NYSE:** 16_TAQ_NYSE_TRADES/ **AMEX:** 29_TAQ_NYSE_AMERICAN_TRADES/ **ARCA:** 12_TAQ_NYSE_ARCA_TRADES/ **NATIONAL:** 30_TAQ_NYSE_NATIONAL_TRADES/ **TEXAS:** 45_TAQ_NYSE_TEXAS_TRADES/ **SUB-DIRECTORIES -** EQY_US_TAQ_EXCH_TRADES/ EQY_US_TAQ_EXCH_TRADES_YYYY/ EQY_US_TAQ_EXCH_TRADES_YYYYMM/ EQY_US_TAQ_EXCH_TRADES_YYYYMMDD.GZ … EQY_US_TAQ_EXCH_TRADES_X*_YYYYMMDD.GZ EQY_US_TAQ_NYSE_TRADES_TRF_YYYYMMDD.GZ (NOTE: THIS FILE IS ONLY AVAILABLE FOR THE NYSE MARKET) EQY_US_EXCH_STOCKSUM/ EQY_US_EXCH_STOCKSUM_YYYY/ EQY_US_EXCH_STOCKSUM_YYYYMM/ EQY_US_EXCH_STOCKSUM_YYYYMMDD.GZ
Imbalances **1 file** *EXCH* **can be** **NYSE** **AMEX** **ARCA** **TEXAS**	**PARENT DIRECTORIES BY MARKET -** **NYSE:** 8_TAQ_NYSE_ORDER_IMBALANCES/ **AMEX:** 18_TAQ_NYSE_AMERICAN_ORDER_IMBALANCES/ **ARCA:** 19_TAQ_NYSE_ARCA_ORDER_IMBALANCES/ **TEXAS**: 46_TAQ_TEXAS_ORDER_IMBALANCES/ **SUB-DIRECTORIES -**

	EQY_US_EXCH_REF_IMBALANCES/
	EQY_US_EXCH_REF_IMBALANCES_YYYY/
	EQY_US_EXCH_REF_IMBALANCES_YYYYMM/
	   EQY_US_EXCH_REF_IMBALANCES_YYYYMMDD.GZ
	
	Files prior to 20180806 can be found in the same directory but are broken out into multiple files.
	
	From 20120130 to 20180803:
	EQY_US_ARCA_REF_IMBALANCES/
	EQY_US_ARCA_REF_IMBALANCES_YYYY/
	EQY_US_ARCA_REF_IMBALANCES_YYYYMM/
	   EQY_US_ARCA_REF_IMBALANCES_1_YYYYMMDD.GZ/
	…
	   EQY_US_ARCA_REF_IMBALANCES_4_YYYYMMDD.GZ/
	
	From 20180102 to 20180803:
	EQY_US_ARCA_REF_IMBALANCES/
	EQY_US_ARCA_REF_IMBALANCES_YYYY/
	EQY_US_ARCA_REF_IMBALANCES_YYYYMM/
	   EQY_US_ARCA_REF_IMBALANCES_1_YYYYMMDD.GZ/
	…
	   EQY_US_ARCA_REF_IMBALANCES_8_YYYYMMDD.GZ/

APPENDIX B: Additional Historical File Availability

Additional history of TAQ XDP is available under the following file names:

- TAQ NYSE American Integrated
  - EQY_US_MKT_IBF from 20151116 to 20170721
- TAQ NYSE Arca Integrated
  - TAQ_US_ARCA_AIF from 20120201 to 20171129
  - EQY_US_ALL_ARCA_BOOK from 20040802 to 20150501
- TAQ NYSE American Order Imbalances
  - Ameximbalance (MFT) from 20081201 to 20170814
  - Amex_Imbalance (AWS) from 20081201 to 20170814
  - EQY_US_AMEX_REF_IMBALANCES_PD from 20090623 to 20170814
  - EQY_US_AMEX_REF_IMBALANCES from 20170724 to Current
- TAQ NYSE Order Imbalances
  - EQY_US_NYSE_REF_IMBALANCES_PD from 20080514 to 20171024
  - EQY_US_NYSE_REF_IMBALANCES from 20080514 to Current
- TAQ NYSE Arca Order Imbalance
  - EQY_US_ARCA_REF_IMBALANCES_1 20120130 to 20180803
  - EQY_US_ARCA_REF_IMBALANCES_2 20120130 to 20180803
  - EQY_US_ARCA_REF_IMBALANCES_3 20120130 to 20180803
  - EQY_US_ARCA_REF_IMBALANCES_4 20120130 to 20180803
- TAQ NYSE Arca Trades
  - EQY_US_ALL_ARCA_TRADE from 20041001 to 20180727
  - EQY_US_TAQ_ARCA_TRADES from 20180730 to Current
  - EQY_US_ALL_ARCA_TRADE_BUST from 20041001 to 20140807
- TAQ NYSE Trades
  - EQY_US_NYSE_TRADE from 20070205 to 20171106
  - EQY_US_TAQ_NYSE_TRADES from 20171023 to Current
- TAQ NYSE American Trades
  - EQY_US_TAQ_MKT_TRADE from 20151210 to 20170914
- TAQ NYSE American BBO
  - EQY_US_TAQ_MKT_BBO 20140721 to 20170721
  - EQY_US_MKT_BBO 20140721 to 20151218
  - EQY_US_TAQ_AMEX_BBO from 20170724 to Current