

TAQ XDP INTEGRATED, TRADES AND BBO FEED CLIENT SPECIFICATION NYSE, NYSE MKT

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PREFACE

DOCUMENT HISTORY

VERSION NO.	DATE	CHANGE DESCRIPTION
1.0	05/19/2015	Version 1.0 Initial Publicaton

REFERENCE MATERIAL

The following lists the associated documents, which either should be read in conjunction with this document or which provide other relevant information for the user:

NYSE Symbology - <u>http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089</u>

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FURTHER INFORMATION

For additional information about the product, visit the TAQ XDP Integrated Feed Product Page

For updated capacity figures, visit our capacity pages at: <u>http://www.nyxdata.com/capacity</u> For a full glossary, visit: <u>http://www.nyxdata.com/glossary/</u>

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1. TAQ XDP Integrated, XDP Trades and XDP BBO Information

1.1 OVERVIEW

NYSE and MKT Integrated, Trades and BBO Feed data is available on a historical/end-of-day basis in flat file format, enabling you to recreate the limit order book for any given time. This product is called *TAQ NYSE* and *MKT Integrated, Trades or BBO Feed* ("TAQ" refers to "Trades and Quotes").

TAQ NYSE and MKT Integrated, Trades or BBO Feed includes the details of all open orders and order changes (including replaces and cancels), trades, security status and imbalance messages. The specific product file contains messages disseminated via NYSE's real-time Integrated, Trades or BBO data feed and includes information for all securities traded at NYSE or MKT.

1.2 ACCESS AND DATA FORMAT

Files are available via File Transfer Protocol (FTP).

TAQ NYSE Integrated Feed is available in as five daily files in ASCII CSV format, and compressed using GNU Zip. There are four files, one for each channel and one file for the stock summary message(27.5MB). TAQ NYSE Integrated Feed files are approximately 3.5 G.

TAQ NYSE MKT Integrated Feed is available in as two daily files in ASCII CSV format, and compressed using GNU Zip. There are two files, one for the feed and one file for the stock summary message(1.3MB). TAQ NYSE MKT Integrated Feed files are approximately 48 MB.

All data in this file will come in the order it came into the real-time Integrated Feed.

TAQ NYSE Trades Feed is available in as two daily files in ASCII CSV format, and compressed using GNU Zip. There is one file for the Trades feed and one file for the stock summary message(27.5MB). TAQ NYSE Trades Feed files are approximately 60 MB.

TAQ NYSE MKT Trades Feed is available in as two daily files in ASCII CSV format, and compressed using GNU Zip. There is one file for the Trades feed and one file for the stock summary message(1.3MB). TAQ NYSE MKT Trades Feed files are approximately 826 KB.

All data in this file will come in the order it came into the real-time Trades Feed.

TAQ NYSE BBO Feed is available in as one daily file in ASCII CSV format, and compressed using GNU Zip. There is one file for the BBO feed. TAQ NYSE BBO Feed file is approximately 1 GB.

TAQ NYSE MKT BBO Feed is available in as one daily file in ASCII CSV format, and compressed using GNU Zip. There is one file for the BBO feed. TAQ NYSE BBO Feed file is approximately 23 MB.

All data in this file will come in the order it came into the real-time BBO Feed.

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 NYXdata website. Upon the approval, NYSE will issue the ftp credentials for accessing the data. Please allow up to an hour for newly purchased data product(s) from the FTP directory setup to complete. Subscribers may download the data once and place the data on their internal database for internal users to access the data.

1.3 DATA TYPES

All numeric fields consist only of numeric ASCII characters (0-9). All alpha fields consist only of alphabetic ASCII characters (a-z and A-Z).

Prices are in decimal format. Examples; "25.222", "0.125", "100.6", "2.30", "4.444'.

The Sequence number is a monotonically increasing number that uniquely identifies each message per channel. This number will start the day at 1 and increment by 1 for each new message per channel.

Timestamps are in hours, minutes, seconds, and microseconds, eg: "12:32:44.123456".

For all the default values of 0 and blanks in the real time feeds, there is no value in CSV.

1.4 SYMBOLOGY

All symbols are expressed in <u>NYSE Symbology</u>. The complete specification can be found at <u>http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089</u>

1.5 FTP DIRECTORY STRUCTURE

TABLE 1 FTP DETAILS

HOST	РАТН
ftp2.nyxdata.com	Accessed directly from root.

TABLE 2 FOLDER NAMES

FILE TYPE	TOP LEVEL	SECOND LEVEL	THIRD LEVEL
Add / Modify /	/EQY_US_NYSE_IBF	/EQY_US_NYSE_IBF_YYYY	/EQY_US_NYSE_IBF_YYYYMM
Delete			

The file name comprises the folder name (for example, EQY_US_NYSE_IBF) concatenated with the trading date (in the format YYYYMMDD). Files are in compressed comma-separated value (CSV) format , for example:

EQY_US_NYSE_IBF_20150519.csv

Product Package #1: TAQ NYSE Integrated Feed - http://www.nyxdata.com/nysedata/Default.aspx?tabid=139

- /EQY_US_NYSE_IBF/EQY_US_NYSE_IBF_yyyy/EQY_US_NYSE_IBF_yyyymm/EQY_US_NYSE_IBF_1_yyyymmdd.gz
- /EQY_US_NYSE_IBF/EQY_US_NYSE_IBF_yyyy/EQY_US_NYSE_IBF_yyyymm/EQY_US_NYSE_IBF_2_yyyymmdd.gz
- /EQY_US_NYSE_IBF/EQY_US_NYSE_IBF_yyyy/EQY_US_NYSE_IBF_yyyymm/EQY_US_NYSE_IBF_3_yyyymmdd.gz
- /EQY_US_NYSE_IBF/EQY_US_NYSE_IBF_yyyy/EQY_US_NYSE_IBF_yyyymm/EQY_US_NYSE_IBF_4_yyyymmdd.gz

Product component:

Stock Summary

/EQY_US_NYSE_STOCKSUM/EQY_US_NYSE_STOCKSUM_yyyy/EQY_US_NYSE_STOCKSUM_yyymm/EQY_US_NYSE_STOCKSUM_yyymmdd.gz

Product Package # 2: TAQ NYSE Trades

TAQ NYSE Trades XDP - http://www.nyxdata.com/Data-Products/NYSE-Trades-EOD

History in XDP: 6/1/2015-present. Please note, existing legacy TAQ NYSE Trades under /EQY_US_NYSE_TRADE prior to 6/2015. XDP will include additional fields for TAQ NYSE Trades XDP. After approx. three months test parallel period for legacy and XDP, the ".new" in the file name will be removed

/EQY_US_NYSE_TRADE/EQY_US_NYSE_TRADE_yyyy/EQY_US_NYSE_TRADE_yyyymm/EQY_US_NYSE_TRADE_yyyymmdd.new.gz

Product component:

Stock Summary

/EQY_US_NYSE_STOCKSUM/EQY_US_NYSE_STOCKSUM_yyyy/ EQY_US_NYSE_STOCKSUM_yyymm/EQY_US_NYSE_STOCKSUM_yyymmdd.gz

Product Package #3: TAQ NYSE BBO - http://www.nyxdata.com/page/819

- /EQY_US_TAQ_NYSE_BBO/EQY_US_TAQ_NYSE_BBO_yyyy/EQY_US_TAQ_NYSE_BBO_yyyymm/EQY_US_TAQ_NYSE_BBO_1_yyyymmdd.gz
- /EQY_US_TAQ_NYSE_BBO/EQY_US_TAQ_NYSE_BBO_yyyy/EQY_US_TAQ_NYSE_BBO_yyyymm/EQY_US_TAQ_NYSE_BBO_2_yyyymmdd.gz

Product Package # 4: TAQ NYSE MKT Integrated Feed

http://www.nyxdata.com/Data-Products/NYSEMKT-Integrated-History

/EQY_US_MKT_IBF/EQY_US_MKT_IBF_yyyy/EQY_US_MKT_IBF_yyyymm/EQY_US_MKT_IBF_yyyymmdd.gz

Product component:

Stock Summary

/EQY_US_MKT_STOCKSUM/EQY_US_MKT_STOCKSUM_yyyy/ EQY_US_MKT_STOCKSUM_yyyymm/EQY_US_MKT_STOCKSUM_yyyymmdd.gz

Product Package #5: TAQ NYSE MKT Trades

https://www.nyxdata.com/nysedata/default.aspx?tabid=657&pid=12421

/EQY_US_TAQ_MKT_TRADE/EQY_US_TAQ_MKT_TRADE_yyyy/EQY_US_TAQ_MKT_TRADE _yyyymm/EQY_US_TAQ_MKT_TRADE _yyyymmdd.gz

Product component:

Stock Summary

/EQY_US_MKT_STOCKSUM/EQY_US_MKT_STOCKSUM_yyyy/EQY_US_MKT_STOCKSUM_yyyymm/EQY_US_MKT_STOCKSUM_yyyymmdd.gz

Product Package# 6: TAQ NYSE MKT BBO

http://www.nyxdata.com/page/1401

/EQY_US_TAQ_MKT_BBO/EQY_US_TAQ_MKT_BBO_yyyy/EQY_US_TAQ_MKT_BBO_yyyymm/EQY_US_TAQ_MKT_BBO_yyymmdd.gz

1.6 ALTERNATIVE PRODUCTS

For details of related TAQ products and the full range of TAQ offerings, please refer to the Historical Data Products section of NYXData at: <u>http://www.nyxdata.com/Data-Products</u>. For a listing of all Market Data products, please refer to the Data Products section of NYXData at: <u>http://www.nyxdata.com/Data-</u> <u>Products/Filter-and-Search-Data-Products</u>

2. 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.

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. nnnnnn	Timestamp of the matching engine event that resulted in this message	
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
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 blank-filled if firm ID was not specified	
NumParitySplits	11	Numeric	 Resulting number of splits at this price level 0 = The number of parity splits at this price level is between 1 and 4 inclusive 5-254 = The number of parity splits at this price level 255 = 255 or more splits at this price level 	

3. 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. nnnnnn	Timestamp of the matching engine event that resulted in this message	
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
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	 0 – Kept position in book 1 –Lost position in book 	
PrevPriceParitySplits	10	Numeric	 Resulting number of splits at previous price 0 = The number of parity splits at this price level is between 1 and inclusive 5-254 = The number of parity splits at this price level 255 = 255 or more splits at this price level 	
NewPriceParitySplits	11	Numeric	 Resulting number of splits at the new price (If price does not change, same as PrevPriceParitySplits) Values same as PrevPriceParitySplits 	

4. 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 Туре	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. nnnnnn	Timestamp of the matching engine event that resulted in this message	
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
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	
PrevPriceParitySplits	10	Numeric	 Resulting number of splits at previous price 0 = The number of parity splits at this price level is between 1 and 4 inclusive 5-254 = The number of parity splits at this price level 255 = 255 or more splits at this price level 	
NewPriceParitySplits	11	Numeric	 Resulting number of splits at the new price (If price does not change, same as PrevPriceParitySplits) Values same as PrevPriceParitySplits 	

5. 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.

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. nnnnnn	Timestamp of the matching engine event that resulted in this message	
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
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	
NumParitySplits	7	Numeric	 Resulting number of splits at this price level 0 = The number of parity splits at this price level is between 1 and 4 inclusive 5-254 = The number of parity splits at this price level 255 = 255 or more splits at this price level 	

6. 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. nnnnnn	Timestamp of the matching engine event that resulted in this message	
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
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 identifier for this trade. 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 	
NumParitySplits	11	Numeric	 Resulting number of splits at this price level 0 = The number of parity splits at this price level is between 1 and 4 inclusive 5-254 = The number of parity splits at this price level 255 = 255 or more splits at this price level 	

7. Non-Displayed Trade Message – Msg Type 110

An 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. nnnnnn	Timestamp of the matching engine event that resulted in this message
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=14 07&folder=241089
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 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

8. 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. nnnnnn	Timestamp of the matching engine event that resulted in this message
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1 407&folder=241089
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

9. 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	FORMAT	
FIELD NAME	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. nnnnnn	Timestamp of the matching engine event that resulted in this message
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1 407&folder=241089
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: 'O' – Market Center Opening Auction '5' – Market Center Reopening Auction '6' – Market Center Closing Auction

10. 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 Туре	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. nnnnnn	Timestamp of the matching engine event that resulted in this message
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1 407&folder=241089
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

11. Imbalance Message- Msg Type 105

Imbalance messages are sent periodically to update price and volume information during auctions.

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. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy	
Symbol	5	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
SymbolSeqNum	6	Numeric	The sequence number of this message in the set of all messages for this symbol	
ReferencePrice	7	Numeric	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 last sale is lower than Bid price, or the Offer price if last sale is higher than Offer price.	
PairedQty	8	Numeric	This field contains the paired off quantity at the reference price point	
TotalImbalanceQty	9	Numeric	This field contains the total imbalance quantity at the reference price point. Please note that Total Imbalance Quantity could be negative.	
MarketImbalanceQty	10	Numeric	This field indicates the total market order imbalance at the reference price	
AuctionTime	11	Numeric	Projected Auction Time (hhmm)	
AuctionType	12	Alpha	 'M' – Open 'H' – Halt 'C' – Closing 'R' – Imbalance Regulatory 	
ImbalanceSide	13	Alpha	The side of the imbalance (Buy/Sell) Valid values: • 'B' – Buy • 'S' – Sell • Space – no imbalance	
ContinuousBook ClearingPrice	14	Numeric	The Continuous Book Clearing Price is defined as the price closest to last sale where imbalance is zero.	

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			If a Book Clearing Price is not reached, the Clearing Price, a zero will be published in the Book Clearing Price Field.
ClosingOnly ClearingPrice	15	Numeric	This field contains the indicative price against closing only order.
SSRFilingPrice	16	Numeric	This field contains the SSR Filing Price. This price is the price at which Sell Short interest will be filed in the matching in the event a Sell Short Restriction is in effect for the security. Note: The SSR Filing price is based on the National Best Bid at 9:30am. This price remains static after the SSR Filing price has been determined.

12. Symbol Index Mapping Message (Msg Type 3)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION	
Msg Туре	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	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089	
Market ID	4	Numeric	 ID of the Originating Market: 1 - NYSE Cash 3 - NYSE Arca Cash 4 - NYSE Arca Options 5 - NYSE Bonds 6 - Global OTC 8 - NYSE Amex Options 9 - NYSE MKT Cash 	
System ID	5	Numeric	ID of the originating matching engine server	
Exchange Code	6	Alpha	 Exchange where the this symbol is listed: 'N' - NYSE 'P' - NYSE Arca 'Q' - NASDAQ 'A' - NYSE MKT 'U' - OTCBB symbols for Global OTC 'V' - Other OTC symbols for Global OTC 'Z' - BATS 	
Security Type	7	Alpha	 'Z' - BATS Type of Security used Arca: 'A' - ADR 'C' - COMMON STOCK 'D' - DEBENTURES 'E' - ETF 'F' - FOREIGN 'H' - AMERICAN DEPOSITARY SHARES 'I' - UNITS 'L' - INDEX LINKED NOTES 'M' - MISC/LIQUID TRUST 'O' - ORDINARY SHARES 'P' - PREFERRED STOCK 'R' - RIGHTS 'S' - SHARES OF BENEFICIARY INTEREST 'T' - TEST 	

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
	ORDER		 'U' - UNITS 'W' - WARRANT Type of Security used by NYSE and NYSE MKT: 'A' - COMMON STOCK 'B' - PREFERRED STOCK 'C' - WARRANT 'D' - RIGHT 'E' - CORPORATE BOND 'F' - TREASURY BOND 'G' - STRUCTURED PRODUCT 'H' - ADR COMMON 'I' - ADR PREFERRED 'J'-ADR WARRANTS 'K' - ADR RIGHTS 'L' - ADR CORPORATE BOND 'M' - NY REGISTERED SHARE 'N' - GLOBAL REGISTERED SHARE 'O' - INDEX 'P' - FUND 'Q' - BASKET 'R' - UNIT 'S' - LIQUIDATING TRUST 'U' - UNKOWN
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	Minimum Price Variation
Unit of Trade	14	Numeric	This field specifies the security Unit of Trade in shares. Valid values are 1, 10, 50 and 100

13. Security Status Message (Msg Type 34)

	FIELD		
FIELD NAME	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. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089
SymbolSeqNum	5	Numeric	The unique ID of this message in the sequence of messages published for this specific symbol
Security Status	6	ASCII	The following are Halt Status Codes:
			 '3' - Opening Delay (NYSE/MKT only) '4' - Trading Halt '5' - Resume '6' - No open/no resume (NYSE/MKT only) The following are Short Sale Restriction Codes: 'A' - Short Sale Restriction Activated (Day 1) 'C' - Short Sale Restriction Continued (Day 2) 'D' - Short Sale Restriction Deactivated 'E' - Short Sale Restriction in Effect - Arca only. Appears in the event of a prior day correction/cancel affecting the Short Sale restriction NYSE Market State values :
			 'O' - Opened 'P' - Pre-opening 'X' Closed The following values are the Price Indication values: 'T' - T - Time 'I' - Price Indication 'G' - Pre-Opening Price Indication 'R' - Rule 15 Indication
Halt Condition	7	ASCII	 Empty when not applicable '~' - Security not delayed/halted 'D' - News dissemination 'I' - Order imbalance

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			 'P' - News pending 'M' - LULD pause 'S' - Related security (not used) 'X' - Equipment changeover 'Z' - No open/No resume 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 securityStatus = 'R', then this is Rule 15 High 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: • 'N' – NYSE • 'P' – NYSE Arca • 'Q' – NASDAQ • 'A' – NYSE MKT • 'U' – OTCBB symbol for Global OTC • 'V' – Other OTC symbols for Global OTC • 'B' – NASDAQ OMX BX • 'C' – NSX • 'D' – FINRA • 'I' – ISE • 'J' – EDGA • 'K' – EDGX • 'M' – CHX

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			 'N' - NYSE 'S' - CTS 'T' - NASDAQ OMX 'W' - CBSX 'X' - NASDAQ OMX PSX 'Y' - BATS Y 'Z' - BATS
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 securityStatus = 'T', then it is T-Time If none of the above, then it is empty
SSRState	13	ASCII	 Short Sale Restriction values: '~' - No Short Sale in Effect 'E' - Short Sale Restriction in Effect
MarketState	14	ASCII	Market State values: • 'O' – Opened • 'P' – Pre-Opening • 'X' – Closed

14. 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. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
Symbol	5	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089
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 blanks if firm ID was not specified
NumParitySplits	12	Numeric	 0 = The number of parity splits at this price level is between 1 and 4 inclusive
			 5-254 = The number of parity splits at this price level
			 255 = 255 or more splits at this price level

15. Trade Message – Msg Type 220

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 .nnnnn	Timestamp of the matching engine event down to nanosecond accuracy
Symbol	5	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx? tabid=1407&folder=241089
SymbolSeqNum	6	Numeric	The symbol sequence number
TradeID	7	Numeric	Unique identifier for this trade
Price	8	Numeric	The price of the Trade
Volume	9	Numeric	The volume of the trade in shares.
TradeCond1	10	ASCII	Settlement related conditions. Valid values: '@' – Regular Sale ' ' – (Blank) Regular Sale 'C' – Cash 'N'– Next Day Trade 'R' – Seller Note: Trade Conditions BLANK, C, N, and R are applicable for NYSE and NYSE MKT only.
TradeCond2	11	ASCII	The reason for Trade Through Exemptions. Valid values: Emply when N/A 'F' – Intermarket Sweep Order 'O' – Market Center Opening Trade '5' – Market Center Reopening Trade '6' – Market Center Closing Trade '9' – Corrected Last Sale Price Note: Conditions F and O are applicable for NYSE and NYSE MKT only.
TradeCond3	12	ASCII	Extended hours/sequencing related conditions. Valid values: Emply when N/A 'L' – Sold Last 'T' – Extended Hours Trade 'U' – Extended Hours Sold (Out of Sequence)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			'Z' – Sold
			Note: Condition L is applicable for NYSE and NYSE MKT only. Conditions T, and U are applicable for NYSE Arca only. Condition Z is applicable to all.
TradeCond4	13	ASCII	SRO Required Detail. Valid values:
			Emply when N/A
			ʻ@' - Regular Sale
			· · · – N/A
			'H' – Aberrant Trade (Price Variation Trade)
			'l' – Odd Lot Trade
			'K' – Rule 127 (NYSE only) , or Rule 155 (NYSE MKT Only)
			'M' – Official Closing Price
			'Q' – Official Open Price
			Note: Trade conditions BLANK, H and K are applicable to NYSE and NYSE MKT only. Conditions @, M, and Q are applicable to Arca only.

16. 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.nnnnn	Timestamp of the matching engine event down to nanosecond accuracy
Symbol	5	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tab id=1407&folder=241089
SymbolSeqNum	6	Numeric	The symbol sequence number
OriginalTradeID	7	Numeric	The original TradeID of the Trade message being corrected
TradelD	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	11	ASCII	 Settlement related conditions. Valid values: '@' - Regular Sale ' - (Blank) Regular Sale 'C' - Cash 'N'- Next Day Trade 'R' - Seller Note: Trade Conditions BLANK, C, N, and R are applicable for NYSE and NYSE MKT only.
TradeCond2	12	ASCII	 The Reason for Trade Through Exemptions. Valid values: '' – (Blank) 'F' – Intermarket Sweep Order 'O' – Market Center Opening Trade '5' – Market Center Reopening Trade '6' – Market Center Closing Trade '9' – Corrected Last Sale Price

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			Conditions F and O are applicable for NYSE and NYSE MKT only.
TradeCond3	13	ASCII	Extended hours/sequencing related conditions Valid values:
			 '- (Blank) 'L' - Sold Last 'T' - Extended Hours Trade 'U' - Extended Hours Sold (Out of Sequence) 'Z' - Sold Note: Condition L is applicable for NYSE and NYSE MKT only. Conditions T and U are applicable for NYSE Arca only. Condition Z is applicable to all.
TradeCond4	14	ASCII	SRO Required Detail. Valid values: '@' - Regular Sale ' ' - N/A 'H' - Aberrant Trade (Price Variation Trade) 'I' - Odd Lot Trade
			 'K' – Rule 127 (NYSE only) or Rule 155 (NYSE MKT Only) 'M' – Official Closing Price 'Q' – Official Open Price Note: Trade conditions BLANK, H and K are applicable to NYSE and NYSE MKT only. Conditions @, M, and Q are applicable to Arca only.

17. Quote Message – Msg Type 140

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.nnnnn	Timestamp of the matching engine event down to nanosecond accuracy
Symbol	5	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407& folder=241089
SymbolSeqNum	6	Binary	The symbol sequence number
Ask Price	7	Binary	The Ask price.
Ask Volume	8	Binary	The aggregate size at the ask price
Bid Price	9	Binary	The Bid price
Bid Volume	10	Binary	The aggregtate size at the bid price
Quote Condition	11	ASCII	Valid values:
			'C' - Closing
			'O' - Opening Quote
			'R' - Regular Quote
			'W' - Slow on the Bid and Ask due to a "Set Slow List"
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
			Note: This field is only valid for NYSE and NYSE MKT. It is left as a future release for NYSE Arca.

18. Stock Summary Message – Msg Type 223

On a separate channel from the main feed, the Stock Summary channel, 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.

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. nnnnnn	Timestamp when the matching engine generated this event
Symbol	4	NYSE Symbology	http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241 089
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