



---

## TAQ XDP INTEGRATED, TRADES AND BBO FEED CLIENT SPECIFICATION

### NYSE, NYSE MKT

Version

1.0b

Date

December 15, 2015

© 2016 NYSE. All rights reserved. No part of this material may be copied, photocopied or duplicated in any form by any means or redistributed without the prior written consent of NYSE. All third party trademarks are owned by their respective owners and are used with permission. NYSE and its affiliates do not recommend or make any representation as to possible benefits from any securities or investments, or third-party products or services. Investors should undertake their own due diligence regarding securities and investment practices. This material may contain forward-looking statements regarding NYSE and its affiliates that are based on the current beliefs and expectations of management, are subject to significant risks and uncertainties, and which may differ from actual results. NYSE does not guarantee that its products or services will result in any savings or specific outcome. All data is as of December 15, 2015. NYSE disclaims any duty to update this information.

## PREFACE

---

### DOCUMENT HISTORY

VERSION NO.	DATE	CHANGE DESCRIPTION
1.0	05/19/2015	Version 1.0 Initial Publication
1.0a	12/1/2015	PositionChange field in Modify Order message is defaulted to 0
1.0b	12/15/2015	Added DBExecID field to Order Execution Message – MSG TYPE 110 and Non-Displayed Trade Message – MSG TYPE 110.

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

### CONTACT INFORMATION

#### Service Desk

- Australia Toll Free: +61.1800506227
- China Toll Free: +86.4008822979
- US Toll Free +1.866.873.7422
- UK Toll Free 0808.101.3866
- US Paid +1.212.656.3640
- Email: [service.desk@theice.com](mailto:service.desk@theice.com)

### 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: <http://www.nyxdata.com/capacity>

For a full glossary, visit: <http://www.nyxdata.com/glossary/>

## CONTENTS

---

<b>1.</b>	<b>TAQ XDP INTEGRATED, XDP TRADES AND XDP BBO INFORMATION .....</b>	<b>4</b>
1.1	Overview .....	4
1.2	Access and Data Format .....	4
1.3	Data Types.....	5
1.4	Symbology.....	5
1.5	FTP Directory Structure .....	5
1.6	Alternative Products .....	7
<b>2.</b>	<b>ADD ORDER MESSAGE – MSG TYPE 100 .....</b>	<b>8</b>
<b>3.</b>	<b>MODIFY ORDER MESSAGE – MSG TYPE 101 .....</b>	<b>9</b>
<b>4.</b>	<b>REPLACE ORDER MESSAGE – MSG TYPE 104.....</b>	<b>10</b>
<b>5.</b>	<b>DELETE ORDER MESSAGE – MSG TYPE 102 .....</b>	<b>11</b>
<b>6.</b>	<b>ORDER EXECUTION MESSAGE – MSG TYPE 103 .....</b>	<b>12</b>
<b>7.</b>	<b>NON-DISPLAYED TRADE MESSAGE – MSG TYPE 110 .....</b>	<b>13</b>
<b>8.</b>	<b>TRADE CANCEL MESSAGE – MSG TYPE 112 AND 221 .....</b>	<b>14</b>
<b>9.</b>	<b>CROSS TRADE MESSAGE – MSG TYPE 111 .....</b>	<b>15</b>
<b>10.</b>	<b>CROSS CORRECTION MESSAGE – MSG TYPE 113.....</b>	<b>16</b>
<b>11.</b>	<b>IMBALANCE MESSAGE– MSG TYPE 105 .....</b>	<b>17</b>
<b>12.</b>	<b>SYMBOL INDEX MAPPING MESSAGE (MSG TYPE 3) .....</b>	<b>19</b>
<b>13.</b>	<b>SECURITY STATUS MESSAGE (MSG TYPE 34).....</b>	<b>21</b>
<b>14.</b>	<b>ADD ORDER REFRESH MESSAGE – MSG TYPE 106.....</b>	<b>24</b>
<b>15.</b>	<b>TRADE MESSAGE – MSG TYPE 220 .....</b>	<b>25</b>
<b>16.</b>	<b>TRADE CORRECTION MESSAGE – MSG TYPE 222 .....</b>	<b>27</b>
<b>17.</b>	<b>QUOTE MESSAGE – MSG TYPE 140 .....</b>	<b>29</b>
<b>18.</b>	<b>STOCK SUMMARY MESSAGE – MSG TYPE 223 .....</b>	<b>30</b>
<b>19.</b>	<b>APPENDIX A: INFORMATION ON AUCTIONS - NYSE AND MKT AUCTIONS.....</b>	<b>31</b>

## 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 [NYSE Symbology](http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089). The complete specification can be found at <http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&folder=241089>

### 1.5 FTP DIRECTORY STRUCTURE

TABLE 1 FTP DETAILS

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

TABLE 2 FOLDER NAMES

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

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\_YYYYMM/EQY\_US\_NYSE\_STOCKSUM\_YYYYMMDD.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\_YYYYMM/EQY\_US\_NYSE\_STOCKSUM\_YYYYMMDD.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\_yyyymmdd.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: <http://www.nyxdata.com/Data-Products>. For a listing of all Market Data products, please refer to the Data Products section of NYXData at: <http://www.nyxdata.com/Data-Products/Filter-and-Search-Data-Products>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 100 –Add Order Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nyxedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nyxedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	6	Numeric	The unique ID assigned by the matching engine to this order
<b>Price</b>	7	Numeric	The order price
<b>Volume</b>	8	Numeric	The order quantity in shares
<b>Side</b>	9	Alpha	The side of the order (Buy/Sell). Valid values: <ul style="list-style-type: none"> <li>▪ 'B' – Buy</li> <li>▪ 'S' – Sell</li> </ul>
<b>FirmID</b>	10	Alpha	The market participant's firm ID, or blank-filled if firm ID was not specified
<b>NumParitySplits</b>	11	Numeric	Resulting number of splits at this price level <ul style="list-style-type: none"> <li>▪ 0 = The number of parity splits at this price level is between 1 and 4 inclusive</li> <li>▪ 5-254 = The number of parity splits at this price level</li> <li>▪ 255 = 255 or more splits at this price level</li> </ul>

### 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
<b>Msg Type</b>	1	Numeric	The type of message: 101 – Modify Order Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	6	Numeric	The unique ID assigned by the matching engine to the existing order to be modified
<b>Price</b>	7	Numeric	The new order price
<b>Volume</b>	8	Numeric	The new order quantity in shares
<b>PositionChange</b>	9	Numeric	Will be implemented in a future release and is defaulted to 0 currently. <ul style="list-style-type: none"> <li>▪ 0 – Kept position in book</li> <li>▪ 1 –Lost position in book</li> </ul>
<b>PrevPriceParitySplits</b>	10	Numeric	Resulting number of splits at previous price <ul style="list-style-type: none"> <li>▪ 0 = The number of parity splits at this price level is between 1 and 4 inclusive</li> <li>▪ 5-254 = The number of parity splits at this price level</li> <li>▪ 255 = 255 or more splits at this price level</li> </ul>
<b>NewPriceParitySplits</b>	11	Numeric	Resulting number of splits at the new price <ul style="list-style-type: none"> <li>▪ (If price does not change, same as PrevPriceParitySplits)</li> <li>▪ Values same as PrevPriceParitySplits</li> </ul>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 104 – Replace Order Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	6	Numeric	The unique ID assigned by the matching engine to the existing order to be replaced
<b>NewOrderID</b>	7	Numeric	The new Order ID of the replacement order
<b>Price</b>	8	Numeric	The new order price
<b>Volume</b>	9	Numeric	The new order quantity in shares
<b>PrevPriceParitySplits</b>	10	Numeric	Resulting number of splits at previous price <ul style="list-style-type: none"> <li>▪ 0 = The number of parity splits at this price level is between 1 and 4 inclusive</li> <li>▪ 5-254 = The number of parity splits at this price level</li> <li>▪ 255 = 255 or more splits at this price level</li> </ul>
<b>NewPriceParitySplits</b>	11	Numeric	Resulting number of splits at the new price <ul style="list-style-type: none"> <li>▪ (If price does not change, same as PrevPriceParitySplits)</li> <li>▪ Values same as PrevPriceParitySplits</li> </ul>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 102 – Delete Order Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	6	Numeric	The unique ID assigned by the matching engine to the order to be deleted
<b>NumParitySplits</b>	7	Numeric	Resulting number of splits at this price level <ul style="list-style-type: none"> <li>▪ 0 = The number of parity splits at this price level is between 1 and 4 inclusive</li> <li>▪ 5-254 = The number of parity splits at this price level</li> <li>▪ 255 = 255 or more splits at this price level</li> </ul>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 103 – Order Execution Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	6	Numeric	The unique ID assigned by the matching engine to the order that was partially or fully executed
<b>TradeID</b>	7	Numeric	Unique identifier for this trade. Allows correlation of Executions to Trades.
<b>Price</b>	8	Numeric	The execution price
<b>Volume</b>	9	Numeric	The executed quantity in shares
<b>PrintableFlag</b>	10	Numeric	<ul style="list-style-type: none"> <li>▪ 0 = Not Printed to the SIP</li> <li>▪ 1 = Printed to the SIP</li> </ul>
<b>NumParitySplits</b>	11	Numeric	Resulting number of splits at this price level <ul style="list-style-type: none"> <li>▪ 0 = The number of parity splits at this price level is between 1 and 4 inclusive</li> <li>▪ 5-254 = The number of parity splits at this price level</li> </ul> 255 = 255 or more splits at this price level
<b>DBExecID</b>	12	Numeric	The unique ID assigned by the matching engine to all orders that participated in this trade event. Correlates with the DBExecID field in the gateway Execution Ack msg.

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 110 – Non-Displayed Trade Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>TradeID</b>	6	Numeric	Unique identifier for this trade
<b>Price</b>	7	Numeric	The execution price
<b>Volume</b>	8	Numeric	Volume of the trade in shares
<b>PrintableFlag</b>	9	Numeric	<ul style="list-style-type: none"> <li>▪ 0 = Not Printed to the SIP</li> <li>▪ 1 = Printed to the SIP</li> </ul>
<b>DBExecID</b>	10	Numeric	The unique ID assigned by the matching engine to all orders that participated in this trade event. Correlates with the DBExecID field in the gateway Execution Ack msg.

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 112 – Trade Cancel for TAQ Integrated 221 – Trade Cancel for TAQ Trades
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>TradeID</b>	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 NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>Msg Type</b>	1	Numeric	The type of message: 111 – Cross Trade Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nyxdata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nyxdata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>CrossID</b>	6	Numeric	Unique identifier for this Cross Trade. Used in Cross Correction message to identify the Cross Trade to correct
<b>Price</b>	7	Numeric	The execution price
<b>Volume</b>	8	Numeric	Volume executed in shares
<b>CrossType</b>	9	ASCII	Reason for the crossing auction. Valid values: <ul style="list-style-type: none"> <li>▪ 'O' – Market Center Opening Auction</li> <li>▪ '5' – Market Center Reopening Auction</li> <li>▪ '6' – Market Center Closing Auction</li> </ul>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 113 – Cross Correction Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event that resulted in this message down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>CrossID</b>	6	Numeric	The CrossID of the original Cross Trade message to be corrected
<b>Volume</b>	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
<b>Msg Type</b>	1	Numeric	The type of message: 105 – Imbalance Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	5	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	6	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>ReferencePrice</b>	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.
<b>PairedQty</b>	8	Numeric	This field contains the paired off quantity at the reference price point. The number of shares paired off at the reference price point truncated to the round lot. E.g. 1575 shares is published as 1500.
<b>TotalImbalanceQty</b>	9	Numeric	This field contains the total imbalance quantity at the reference price point to the round lot. E.g. 1575 shares is published as 1500. Please note that Total Imbalance Quantity could be negative.
<b>MarketImbalanceQty</b>	10	Numeric	This field indicates the total market order imbalance at the reference price. Unused in NYSE and NYSE MKT, defaulted to 0.
<b>AuctionTime</b>	11	Numeric	Projected Auction Time (hhmm)
<b>AuctionType</b>	12	Alpha	The reason for the auction. Valid values: <ul style="list-style-type: none"> <li>▪ 'M' – Open</li> <li>▪ 'H' – Halt</li> <li>▪ 'C' – Closing</li> <li>▪ 'R' – Regulatory Imbalance</li> </ul>
<b>ImbalanceSide</b>	13	Alpha	The side of the imbalance (Buy/Sell)  Valid values:  'B' – Buy

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			<ul style="list-style-type: none"> <li>▪ 'S' – Sell</li> <li>▪ Space – No imbalance</li> </ul>
<b>ContinuousBook ClearingPrice</b>	14	Numeric	<p>The Continuous Book Clearing Price is defined as the price closest to last sale where imbalance is zero.</p> <p>If a Book Clearing Price is not reached, the Clearing Price, a zero will be published in the Book Clearing Price Field.</p>
<b>ClosingOnly ClearingPrice</b>	15	Numeric	<p>This field contains the indicative price against closing only order. The price closest to the reference price where the imbalance of closing only interest is 0.</p> <p>If a closing only clearing price is not reached, it is defaulted to 0.</p>
<b>SSRFilingPrice</b>	16	Numeric	<p>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.</p> <p>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.</p>

## 12. Symbol Index Mapping Message (Msg Type 3)

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>Msg Type</b>	1	Numeric	The type of this message: 3 – Symbol Index Mapping Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>Symbol</b>	3	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>Market ID</b>	4	Numeric	ID of the Originating Market: <ul style="list-style-type: none"> <li>▪ 1 - NYSE Cash</li> <li>▪ 3 – NYSE Arca Cash</li> <li>▪ 4 – NYSE Arca Options</li> <li>▪ 5 – NYSE Bonds</li> <li>▪ 6 – Global OTC</li> <li>▪ 8 – NYSE Amex Options</li> <li>▪ 9 - NYSE MKT Cash</li> </ul>
<b>System ID</b>	5	Numeric	ID of the originating matching engine server
<b>Exchange Code</b>	6	Alpha	Exchange where the this symbol is listed: <ul style="list-style-type: none"> <li>▪ 'N' – NYSE</li> <li>▪ 'P' – NYSE Arca</li> <li>▪ 'Q' – NASDAQ</li> <li>▪ 'A' – NYSE MKT</li> <li>▪ 'U' – OTCBB symbols for Global OTC</li> <li>▪ 'V' – Other OTC symbols for Global OTC</li> <li>▪ 'Z' – BATS</li> </ul>
<b>Security Type</b>	7	Alpha	Type of Security used Arca: <ul style="list-style-type: none"> <li>▪ 'A' – ADR</li> <li>▪ 'C' - COMMON STOCK</li> <li>▪ 'D' – DEBENTURES</li> <li>▪ 'E' – ETF</li> <li>▪ 'F' – FOREIGN</li> <li>▪ 'H' – AMERICAN DEPOSITARY SHARES</li> <li>▪ 'I' – UNITS</li> <li>▪ 'L' – INDEX LINKED NOTES</li> <li>▪ 'M' - MISC/LIQUID TRUST</li> <li>▪ 'O' – ORDINARY SHARES</li> <li>▪ 'P' - PREFERRED STOCK</li> <li>▪ 'R' – RIGHTS</li> <li>▪ 'S' - SHARES OF BENEFICIARY INTEREST</li> <li>▪ 'T' – TEST</li> </ul>

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			<ul style="list-style-type: none"> <li>▪ 'U' – UNITS</li> <li>▪ 'W' – WARRANT</li> </ul> <p>Type of Security used by NYSE and NYSE MKT:</p> <ul style="list-style-type: none"> <li>▪ 'A' – COMMON STOCK</li> <li>▪ 'B' – PREFERRED STOCK</li> <li>▪ 'C' – WARRANT</li> <li>▪ 'D' – RIGHT</li> <li>▪ 'E' – CORPORATE BOND</li> <li>▪ 'F' – TREASURY BOND</li> <li>▪ 'G' – STRUCTURED PRODUCT</li> <li>▪ 'H' – ADR COMMON</li> <li>▪ 'I' – ADR PREFERRED</li> <li>▪ 'J' – ADR WARRANTS</li> <li>▪ 'K' – ADR RIGHTS</li> <li>▪ 'L' – ADR CORPORATE BOND</li> <li>▪ 'M' – NY REGISTERED SHARE</li> <li>▪ 'N' – GLOBAL REGISTERED SHARE</li> <li>▪ 'O' – INDEX</li> <li>▪ 'P' – FUND</li> <li>▪ 'Q' – BASKET</li> <li>▪ 'R' – UNIT</li> <li>▪ 'S' – LIQUIDATING TRUST</li> <li>▪ 'U' – UNKNOWN</li> </ul>
<b>Lot Size</b>	8	Numeric	Round lot size in shares
<b>PrevClosePrice</b>	9	Numeric	The previous day's closing price for this security
<b>PrevCloseVolume</b>	10	Numeric	The previous day's closing volume for the security
<b>Price Resolution</b>	11	Numeric	<ul style="list-style-type: none"> <li>▪ 0 - All Penny</li> <li>▪ 1 - Penny/Nickel</li> <li>▪ 5 - Nickel/Dime</li> </ul>
<b>Round Lot</b>	12	Alpha	<p>Round Lots Accepted:</p> <ul style="list-style-type: none"> <li>▪ 'Y' – Yes</li> <li>▪ 'N' – No</li> </ul>
<b>MPV</b>	13	Numeric	Minimum Price Variation
<b>Unit of Trade</b>	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 NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>MsgType</b>	1	Numeric	The type of this message: 34 – Security Status Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	5	Numeric	The unique ID of this message in the sequence of messages published for this specific symbol
<b>Security Status</b>	6	ASCII	<p>The following are Halt Status Codes:</p> <ul style="list-style-type: none"> <li>▪ '3' - Opening Delay (NYSE/MKT only)</li> <li>▪ '4' - Trading Halt</li> <li>▪ '5' - Resume</li> <li>▪ '6' - No open/no resume (NYSE/MKT only)</li> </ul> <p>The following are Short Sale Restriction Codes:</p> <ul style="list-style-type: none"> <li>▪ 'A' – Short Sale Restriction Activated (Day 1)</li> <li>▪ 'C' – Short Sale Restriction Continued (Day 2)</li> <li>▪ 'D' - Short Sale Restriction Deactivated</li> <li>▪ 'E' – Short Sale Restriction in Effect – Arca only. Appears in the event of a prior day correction/cancel affecting the Short Sale restriction</li> </ul> <p>NYSE Market State values :</p> <ul style="list-style-type: none"> <li>▪ 'O' – Opened</li> <li>▪ 'P' – Pre-opening</li> <li>▪ 'X' -- Closed</li> </ul> <p>The following values are the Price Indication values:</p> <ul style="list-style-type: none"> <li>▪ 'T' – T - Time</li> <li>▪ 'I' – Price Indication</li> <li>▪ 'G' – Pre-Opening Price Indication</li> <li>▪ 'R' – Rule 15 Indication</li> </ul>
<b>Halt Condition</b>	7	ASCII	<ul style="list-style-type: none"> <li>▪ Empty when not applicable</li> <li>▪ '~' - Security not delayed/halted</li> <li>▪ 'D' - News dissemination</li> <li>▪ 'I' - Order imbalance</li> </ul>

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			<ul style="list-style-type: none"> <li>▪ 'P' - News pending</li> <li>▪ 'M' – LULD pause</li> <li>▪ 'S' - Related security (not used)</li> <li>▪ 'X' - Equipment changeover</li> <li>▪ 'Z' - No open/No resume</li> </ul> <p>Market Wide Circuit Breakers:</p> <ul style="list-style-type: none"> <li>▪ '1' - Market Wide Circuit Breaker Halt Level 1</li> <li>▪ '2' - Market Wide Circuit Breaker Halt Level 2</li> <li>▪ '3' - Market Wide Circuit Breaker Halt Level 3</li> </ul>
<b>Price 1</b>	8	Numeric	<ul style="list-style-type: none"> <li>▪ If securityStatus = 'A', then this is the SSR Triggering Trade Price</li> <li>▪ If securityStatus = 'G', then this is Pre-Opening Low Price Indication.</li> <li>▪ If securityStatus = 'I', then this is Low Price Indication</li> <li>▪ If securityStatus = 'R', then this is Rule 15 Low Indication Price.</li> <li>▪ If none of the above, then this field is empty</li> </ul>
<b>Price 2</b>	9	Numeric	<ul style="list-style-type: none"> <li>▪ If securityStatus = 'I', then this is High Price Indication</li> <li>▪ If securityStatus = 'G', then this is Pre-Opening Price Indication</li> <li>▪ If securityStatus = 'R', then this is Rule 15 High Price Indication</li> <li>▪ If none of the above, then this field is empty</li> </ul>
<b>SSR Triggering Exchange ID</b>	10	Alpha	<p>Populated when securityStatus = 'A'. Empty when not populated</p> <p>Valid Values are:</p> <ul style="list-style-type: none"> <li>▪ 'N' – NYSE</li> <li>▪ 'P' – NYSE Arca</li> <li>▪ 'Q' – NASDAQ</li> <li>▪ 'A' – NYSE MKT</li> <li>▪ 'U' – OTCBB symbol for Global OTC</li> <li>▪ 'V' – Other OTC symbols for Global OTC</li> <li>▪ 'B' – NASDAQ OMX BX</li> <li>▪ 'C' – NSX</li> <li>▪ 'D' – FINRA</li> <li>▪ 'I' – ISE</li> <li>▪ 'J' – EDGA</li> <li>▪ 'K' – EDGX</li> <li>▪ 'M' – CHX</li> </ul>

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
			<ul style="list-style-type: none"> <li>▪ 'N' – NYSE</li> <li>▪ 'S' – CTS</li> <li>▪ 'T' – NASDAQ OMX</li> <li>▪ 'W' – CBSX</li> <li>▪ 'X' – NASDAQ OMX PSX</li> <li>▪ 'Y' – BATS Y</li> <li>▪ 'Z' – BATS</li> </ul>
<b>SSR Triggering Volume</b>	11	Numeric	This field is only populated when securityStatus = 'A' otherwise it's empty
<b>Time</b>	12	Numeric	<ul style="list-style-type: none"> <li>▪ If securityStatus = 'A' , then this is SSR Trigger Time</li> <li>▪ If securityStatus = 'T', then it is T-Time</li> <li>▪ If none of the above, then it is empty</li> </ul>
<b>SSRState</b>	13	ASCII	Short Sale Restriction values: <ul style="list-style-type: none"> <li>▪ '~' – No Short Sale in Effect</li> <li>▪ 'E' – Short Sale Restriction in Effect</li> </ul>
<b>MarketState</b>	14	ASCII	Market State values: <ul style="list-style-type: none"> <li>▪ 'O' – Opened</li> <li>▪ 'P' – Pre-Opening</li> <li>▪ 'X' – Closed</li> </ul>

## 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
<b>Msg Type</b>	1	Numeric	The type of message: 106 – Add Order Refresh Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	5	NYSE Symbology	<a href="http://www.nyxdata.com/nyse/data/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nyse/data/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	6	Numeric	The sequence number of this message in the set of all messages for this symbol
<b>OrderID</b>	7	Numeric	The unique ID assigned by the matching engine to this order
<b>Price</b>	8	Numeric	The order price
<b>Volume</b>	9	Numeric	The order quantity in shares
<b>Side</b>	10	Alpha	The side of the order (Buy/sell). Valid values: <ul style="list-style-type: none"> <li>▪ 'B' – Buy</li> <li>▪ 'S' – Sell</li> </ul>
<b>FirmID</b>	11	ASCII	The participant's firm ID, or blanks if firm ID was not specified
<b>NumParitySplits</b>	12	Numeric	Future use. Defaulted to 0.

## 15. Trade Message – Msg Type 220

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>Msg Type</b>	1	Numeric	The type of message: 220 – Trade Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS .nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	5	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	6	Numeric	The symbol sequence number
<b>TradeID</b>	7	Numeric	Unique identifier for this trade
<b>Price</b>	8	Numeric	The price of the Trade
<b>Volume</b>	9	Numeric	The volume of the trade in shares.
<b>TradeCond1</b>	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.
<b>TradeCond2</b>	11	ASCII	The reason for Trade Through Exemptions. Valid values: Empty 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.

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
TradeCond3	12	ASCII	<p>Extended hours/sequencing related conditions. Valid values:</p> <p>Empty when N/A</p> <p>'L' – Sold Last</p> <p>'T' – Extended Hours Trade</p> <p>'U' – Extended Hours Sold (Out of Sequence)</p> <p>'Z' – Sold</p> <p>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.</p>
TradeCond4	13	ASCII	<p>SRO Required Detail. Valid values:</p> <p>Empty when N/A</p> <p>'@' - Regular Sale</p> <p>' ' – N/A</p> <p>'H' – Aberrant Trade (Price Variation Trade)</p> <p>'I' – Odd Lot Trade</p> <p>'K' – Rule 127 (NYSE only) , or Rule 155 (NYSE MKT Only)</p> <p>'M' – Official Closing Price</p> <p>'Q' – Official Open Price</p> <p>Note: Trade conditions BLANK, H and K are applicable to NYSE and NYSE MKT only. Conditions @, M, and Q are applicable to Arca only.</p>

## 16. Trade Correction Message – Msg Type 222

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>Msg Type</b>	1	Numeric	The type of message: 222 – Trade Correction Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS.nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	5	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	6	Numeric	The symbol sequence number
<b>OriginalTradeID</b>	7	Numeric	The original TradeID of the Trade message being corrected
<b>TradeID</b>	8	Numeric	The TradeID of the corrected Trade message
<b>Price</b>	9	Numeric	The corrected price of the Trade
<b>Volume</b>	10	Numeric	The corrected volume of the trade in shares
<b>TradeCond1</b>	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.
<b>TradeCond2</b>	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.
<b>TradeCond3</b>	13	ASCII	<p>Extended hours/sequencing related conditions Valid values:</p> <p>' – (Blank)  'L' – Sold Last  'T' – Extended Hours Trade  'U' – Extended Hours Sold (Out of Sequence)  'Z' – Sold</p> <p>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.</p>
<b>TradeCond4</b>	14	ASCII	<p>SRO Required Detail. Valid values:</p> <p>'@' - 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</p> <p>Note: Trade conditions BLANK, H and K are applicable to NYSE and NYSE MKT only. Conditions @, M, and Q are applicable to Arca only.</p>

## 17. Quote Message – Msg Type 140

FIELD NAME	FIELD ORDER	FORMAT	DESCRIPTION
<b>Msg Type</b>	1	Binary	The type of message: 140 – Quote Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS.nnnnnn	Timestamp of the matching engine event down to nanosecond accuracy
<b>Symbol</b>	5	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>SymbolSeqNum</b>	6	Binary	The symbol sequence number
<b>Ask Price</b>	7	Binary	The Ask price.
<b>Ask Volume</b>	8	Binary	The aggregate size at the ask price
<b>Bid Price</b>	9	Binary	The Bid price
<b>Bid Volume</b>	10	Binary	The aggregate size at the bid price
<b>Quote Condition</b>	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"
<b>RPI Indicator</b>	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
<b>Msg Type</b>	1	Numeric	The type of message: 223 – Stock Summary Message
<b>SequenceNumber</b>	2	Numeric	A unique, sequential message ID that 'tags' each message and allows recipients to identify the message
<b>SourceTime</b>	3	HH:MM:SS. nnnnnn	Timestamp when the matching engine generated this event
<b>Symbol</b>	4	NYSE Symbology	<a href="http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089">http://www.nyxdata.com/nysedata/default.aspx?tabid=1407&amp;folder=241089</a>
<b>HighPrice</b>	5	Numeric	The exchange high price of this stock for the day
<b>LowPrice</b>	6	Numeric	The exchange Low price of this stock for the day
<b>Open</b>	7	Numeric	The exchange Opening price of this stock for the day
<b>Close</b>	8	Numeric	The exchange Closing price of this stock for the day
<b>TotalVolume</b>	9	Numeric	The exchange cumulative volume for the stock throughout the day

**APPENDIX A: Information on Auctions – NYSE and MKT Auctions**

FIELD NAME	DESCRIPTION
<b>Opening</b>	<p><b>Interest Included</b></p> <ul style="list-style-type: none"> <li>▪ All electronic interest eligible to trade in the opening auction</li> <li>▪ DMM interest as needed to offset the imbalance</li> </ul> <p><b>Order Cancellation</b></p> <ul style="list-style-type: none"> <li>▪ Orders can be cancelled at any time up to the conclusion of the auction</li> </ul> <p><b>Calculation</b></p> <p>The Reference Price is equal to the previous close unless there is a Rule 15 or Mandatory indication published, in which case</p> <ul style="list-style-type: none"> <li>▪ The Reference Price is the indication low price if the indication low price is higher than the previous close</li> <li>▪ The Reference Price is the indication high price if the indication high price is lower than the previous close</li> <li>▪ The Reference Price is the previous close if the previous close is within the indication range</li> </ul> <p>The Continuous Book Clearing Price is defaulted to 0 until 2 minutes before the opening auction time.</p>
<b>Closing</b>	<p><b>Interest Included</b></p> <ul style="list-style-type: none"> <li>▪ For Paired Quantity, Total Imbalance Quantity and Closing Only Clearing Price : <ul style="list-style-type: none"> <li>○ MOC and LOC orders</li> <li>○ Closing Only interest (when offsetting the imbalance)</li> <li>○ Discretionary orders in the last 5 minutes of the auction only</li> </ul> </li> <li>▪ For Continuous Book Clearing Price : <ul style="list-style-type: none"> <li>○ All electronic interest eligible to trade in the closing auction</li> <li>○ DMM interest as needed to offset the imbalance</li> </ul> </li> </ul> <p><b>Order Cancellation</b></p> <ul style="list-style-type: none"> <li>▪ Orders can be cancelled any time during the auction, except for MOC and LOC orders which can be cancelled only up to 2 minute before the conclusion of the auction .</li> </ul> <p><b>Calculation</b></p> <p>The Continuous Book Clearing Price is defaulted to 0 until 15 minutes before the closing auction time.</p>

