



TAQ OPENBOOK CLIENT SPECIFICATION

NYSE AMERICAN TAQ OPENBOOK ULTRA
NYSE AMERICAN TAQ OPENBOOK AGGREGATED

NYSE TAQ OPENBOOK ULTRA
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Version

1.3a

Date

July 10th, 2025

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PREFACE

DOCUMENT HISTORY

The following table provides a description of all changes to this document.

VERSION NO.	DATE	CHANGE DESCRIPTION
1.2	04/20/2017	Document rebranded with the ICE template TAQ OpenBook Ultra and Aggregated combined into one specification Updated for NYSE American market Clarified chronological order of records New values in the Aggregated message, Status and Buy/Sell fields Added new ListingMarket field to for trading all tapes Aggregated message timestamp accuracy to nanoseconds Change LinkID2 & 3 fields (now unused) to reserved status Removed unused Reference Price field from Aggregated msg layout
1.2a	07/10/2017	Updated the timelines for the availability of TAQ OpenBook Ultra Added the file path for the channels of TAQ OpenBook Ultra Ultra Modify the format in the Quote Condition to ASCII and updated the description for TAQ OpenBook Ultra Add the default value of 'Space' for the Reason Code field in TAQ OpenBook Ultra Updated the Reason Code for TAQ OpenBook Ultra Updated Date description field for TAQ OpenBook Aggregated Modify the Time for TAQ OpenBook Aggregated
1.2b	12/14/2017	Updated Security Index byte length from 2 to 4
1.3	01/28/2022	Added Trading Status of "B" in msgtype 230 and msgtype 231.
1.3a	03/21/2022	Updated document with new NYSE logo and branding. No content changes.
1.3b	7/10/2025	Updated document with new NYSE logo and branding. Replaced references to MFT platform with SFTP and S3 access methods. Clarified file path for TAQ NYSE OpenBook Ultra channels.

RELATED DOCUMENTS

[NYSE Symbology Specification](#)

SUPPORT CONTACT INFORMATION

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1. INTRODUCTION

An instance of the TAQ OpenBook Ultra file and of the TAQ OpenBook Aggregated file is produced at the end of every trading day for the NYSE exchange, and for the NYSE American exchange, a total of four files.

Each record in the file represents an update to the state of the order book for a particular symbol traded at the exchange. The order books for all symbols traded on the exchange are included. Test symbols are not included.

For OpenBook Ultra, an update record appears whenever there was a significant change to the order book. For Openbook Aggregated, update records are published once a second per symbol.

Records are in chronological order.

1.1 TIMELINES AND AVAILABILITY

New OpenBook Ultra and OpenBook Aggregated files are available at the approximate times below. Historical National Volume Summary files are available in the date ranges shown.

All times are in US Eastern time.

PRODUCT	TYPICAL FILE TIME AVAILABILITY	HISTORY FILE AVAILABILITY
NYSE TAQ OpenBook Ultra	11:00 PM	6/2/2008 – present
NYSE TAQ OpenBook Aggregated	08:00 PM	1/24/2002 – present
NYSE American TAQ OpenBook Ultra	11:00 PM	3/12/2014 – present
NYSE American TAQ OpenBook Aggregated	08:00 PM	7/24/2017 – present

1.2 FILE FORMATS

- TAQ OpenBook Aggregated files are in a pipe-delimited ASCII format.
- TAQ OpenBook Ultra data files are in a binary format.
- All TAQ OpenBook files are compressed using gzip and have a .gz extension.

1.3 FILE NAME AND LOCATIONS

In order to establish your connection to the SFTP, NYSE needs your dedicated source IP address(es) and SSH Key(s). Please provide this information on the customer dashboard by visiting dashboard.theice.com and navigating to “SFTP Access Settings”. For additional information, please refer to the [NYSE SSH Key Generation Guide](#).

For additional information regarding accessing the NYSE SFTP, please refer to the [NYSE SFTP Access - User Guide](#).

SFTP Directory Structure

Exchange	File Path and Name
NYSE OpenBook Ultra	EQY_US_NYSE_BOOK/ EQY_US_NYSE_BOOK_yyyy/ EQY_US_NYSE_BOOK_yyyymm/ EQY_US_NYSE_BOOK_yyyymmdd.gz ... EQY_US_NYSE_BOOK_1_yyyymmdd.gz EQY_US_NYSE_BOOK_2_yyyymmdd.gz EQY_US_NYSE_BOOK_3_yyyymmdd.gz EQY_US_NYSE_BOOK_4_yyyymmdd.gz EQY_US_NYSE_BOOK_5_yyyymmdd.gz EQY_US_NYSE_BOOK_6_yyyymmdd.gz EQY_US_NYSE_BOOK_7_yyyymmdd.gz EQY_US_NYSE_BOOK_8_yyyymmdd.gz
NYSE OpenBook Aggregated	EQY_US_NYSE_BOOK_AGGR/ EQY_US_NYSE_BOOK_AGGR_yyyy/ EQY_US_NYSE_BOOK_AGGR_yyyymm/ EQY_US_NYSE_BOOK_AGGR_yyyymmdd.gz
NYSE American OpenBook Ultra	EQY_US_MKT_BOOK/ EQY_US_MKT_BOOK_yyyy/ EQY_US_MKT_BOOK_yyyymm/ EQY_US_MKT_BOOK_yyyymmdd.gz ... EQY_US_MKT_BOOK_1_yyyymmdd.gz EQY_US_MKT_BOOK_2_yyyymmdd.gz EQY_US_MKT_BOOK_3_yyyymmdd.gz EQY_US_MKT_BOOK_4_yyyymmdd.gz
NYSE American OpenBook Aggregated	EQY_US_MKT_BOOK_AGGR/ EQY_US_MKT_BOOK_AGGR_yyyy/ EQY_US_MKT_BOOK_AGGR_yyyymm/ EQY_US_MKT_BOOK_AGGR_yyyymmdd.gz

S3 Bucket Name

nyse.taq.prod.rawfiles

S3 Directory Structure

Exchange	File Path and Name
NYSE OpenBook Ultra	6_TAQ_NYSE_OPENBOOK
NYSE OpenBook Aggregated	
NYSE American OpenBook Ultra	24_TAQ_NYSE_AMERICAN_OPENBOOK
NYSE American OpenBook Aggregated	

2. TAQ OPENBOOK ULTRA FIELD LAYOUT

In the format column, a number in parentheses is the maximum length of the field.

FIELD ORDER	FIELD	FORMAT	DESCRIPTION
1	MsgSeqNum	Binary (4)	The message sequence number
2	MsgType	Binary (2)	The type of this message <ul style="list-style-type: none"> 230 – Full Update Message 231 – Delta Update Message
3	SendTime	Binary(4)	The time that this message was published, in milliseconds since midnight.
4	Symbol	ASCII (11)	The symbol in NYSE symbology (Root Space Suffix)
5	MsgSize	Binary (2)	The size of this message in bytes, including this field. MsgSize=sum(fixed fields) + number of price Points*sum (price point fields for 1 price point).
6	SecurityIndex	Binary (4)	A numerical unique ID for this symbol.
7	SourceTime	Binary (4)	The time this update was generated by the matching engine, in milliseconds since midnight
8	SourceTimeMicroSecs	Binary (2)	The number of microseconds after the millisecond boundary that this update was generated by the matching engine
9	QuoteCondition	ASCII(1)	The current quote condition for this symbol. Values: <ul style="list-style-type: none"> ' ' - space (no special quote condition exists) 'W' - slow on both the Bid and Ask sides because this security is on the Set Slow list
10	Trading Status	ASCII (1)	Trading status of this security. Values: <ul style="list-style-type: none"> 'P' - Pre-Opening 'B' - Begin Accepting Orders 'E' – Early session (NYSE American only) 'O' – Opened (Core Session) 'L' – Late Session (NYSE American only) 'X' - Closed 'H' - Halted
11	SourceSeqNum	Binary (4)	The sequence number assigned by the source system to this message. Unique only for this symbol, so orders for two different stocks may share the same source sequence number.

12	SourceSessionID	Binary (1)	The source-session identifier is incremented with every new source session during the day. SourceSessionIDs may restart at a lower number with every new session.
13	PriceScaleCode	Binary (1)	<p>The denominator code for the price fields in this message. Represents the number of digits after the decimal place in the price.</p> <p>Examples:</p> <ul style="list-style-type: none"> For a price of 12, PriceScaleCode is 0. For a price of 12.3, PriceScaleCode is 1.
14	PriceNumerator	Binary (4)	<p>The price (numerator) of this price point.</p> <p>Note: The price is represented by the PriceScaleCode and the PriceNumerator. For example, a price of 12.3 has a “price numerator” of 123 and a scalecode of 1.</p>
15	Volume	Binary (4)	The total interest in shares at this price point.
16	ChgQty	Binary (4)	The volume of the event taking place (that is, the size of the order, cancel or execution).
17	NumOrders	Binary (2)	The number of orders at the current price point.
18	Side	ASCII (1)	<p>The side of this price point, Buy or sell. Valid Values:</p> <ul style="list-style-type: none"> ‘B’ = Buy ‘S’ = Sell
19	Filler	ASCII (1)	Reserved. Ignore any content.
20	ReasonCode	ASCII (1)	<p>The reason for this update. Valid values:</p> <ul style="list-style-type: none"> ‘O’ - New order/additional interest added ‘C’ - Cancel ‘E’ - Execution ‘X’ - Multiple events ‘ ’ - space - message is not an update
21	Filler	ASCII (1)	Reserved. Ignore any content.
22	LinkID1	Binary (4)	The LinkID is only populated when an execution occurs. It uniquely identifies the execution.
23	LinkID2	Binary (4)	Reserved. Ignore any content.
24	LinkID3	Binary (4)	Reserved. Ignore any content.

3. TAQ OPENBOOK AGGREGATED FIELD LAYOUT

In the format column, a number in parentheses is the maximum length of the field.

FIELD ORDER	FIELD	FORMAT	DESCRIPTION
1	Symbol	Text (16)	Stock symbol in NYSE symbology (Root Space Suffix)
2	Status	Text (1)	Current trading status of the symbol <ul style="list-style-type: none"> • P = Pre-Opening • H = Stock Halted • E = Early Session (NYSE American only) • O = Open, or for NYSE American, Core Session • L = Late Session (NYSE American only) • X = Stock Closed
3	Date	YYYYMMDD	Trade date of this update
4	Time	HHMMSS.ssssssss	Time of this update, with nanoseconds accuracy
5	Buy/Sell	Text (1)	The side of this update, buy or sell <ul style="list-style-type: none"> • B = Buy • S = Sell
6	Price Point	Number (15)	The price point of this update, in dollars, with an optional decimal point and one or more decimal places.
7	Shares	Number (9)	The number of shares on this side of this price point
8	Number of Orders	Number (5)	The number of orders on this side of this price point
9	Listing Market	Text(1)	Exchange where the symbol is listed: <ul style="list-style-type: none"> • N – NYSE • P – NYSE Arca • Q – NASDAQ • A – NYSE American • Z – CBOE • M - NYSE Texas