



FINRA[®]
Agency Debt Trade Dissemination
ServiceSM (ADTSSM)

(ATDS MOLD/UDP 64)

Data Feed Interface Specification

For Agency Debt Bond Transactions

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Table of Contents

1.0	Introduction	1-1
1.1	Background Information	1-1
1.2	Scope.....	1-1
1.3	Document Scope/Software Releases.....	1-2
2.0	General System Description.....	2-1
2.1	Interface Protocol	2-1
2.2	Transmission Protocol.....	2-1
2.3	Retransmission Capability	2-1
3.0	Transmission Characteristics.....	3-1
4.0	Message Header.....	4-1
4.1	Message Category.....	4-1
4.2	Message Type.....	4-1
4.3	Trade Identifier.....	4-2
4.4	Market Center Originator ID	4-2
4.5	Date/Time.....	4-3
5.0	Data Formats.....	5-1
5.1	Trade-Related Messages	5-1
5.1.1	Trade Reports.....	5-1
5.1.2	Trade Cancel	5-3
5.1.3	Trade Correction	5-4
5.2	Administrative Messages.....	5-7
5.2.1	Daily Trade Summary	5-7
5.2.2	Trading Halt	5-7
5.2.3	General Administrative Message.....	5-8
5.2.4	End of Day Market Aggregate Data	5-8
6.0	Field Occurrence Matrix.....	6-1
7.0	Field Definitions	7-1
8.0	Trade Processing	8-1
8.1	Background Information	8-1
8.2	Display Requirements.....	8-2
8.3	Trade Processing	8-2
8.3.1	Bond Identifier.....	8-2
8.3.2	When Issued Indicator	8-3
8.3.3	Price and Associated Indicators	8-3
8.3.4	Yield.....	8-3
8.3.5	Quantity.....	8-4
8.3.6	As/Of Indicator	8-4
8.3.7	Sale Condition Modifiers	8-5
8.3.8	Price Change Indicator	8-5
8.3.9	Side	8-6
8.3.10	Reporting Party Type	8-6
8.3.11	Contra Party Type	8-6
8.4	Trade Cancel and Correction Processing.....	8-6
8.4.1	Display Guidelines for Trade Cancellations (current day cancels)	8-7
8.4.2	Display Guidelines for Trade Corrections (current day corrections)	8-7
9.0	Administrative Message Processing Guidelines	9-1
9.1	Daily Trade Summary.....	9-1
9.2	Trading Halts.....	9-1
9.2.1	Market Aggregates	9-1
10.0	Control Message Processing Guidelines	10-1

FINRA Agency Debt Trade Dissemination Service (ATDS)

10.1	Hours of Operation.....	10-1
10.2	Control Message Descriptions	10-1
10.3	Start Of Day.....	10-1
10.4	End Of Day	10-1
10.5	Market Session Open.....	10-2
10.6	Market Session Close	10-2
10.7	End of Trade Session.....	10-2
10.8	End of Transmission	10-2
11.0	Format Release and Testing Information	11-1
11.1	Release Notification.....	11-1
11.2	Types of Testing	11-1
11.3	Identification of Test Data.....	11-1
12.0	Appendices.....	12-1
12.1	Appendix A – Glossary of Terms	12-1
12.2	Appendix B – ATDS Transmission Schedule	12-4
12.3	Appendix C – Sale Condition Matrix.....	12-5
12.4	Appendix D – FINRA Display Guidelines for ATDS Data Elements	12-6
12.5	Appendix E – Connectivity.....	12-7
12.6	Appendix F – Document Version Control Information	12-8

1.0 Introduction

1.1 Background Information

In 2002, the Financial Industry Regulatory Authority® (FINRA®) introduced a new Trade Reporting and Compliance EngineSM (TRACESM) for corporate bond transactions. Under FINRA Rule 6700, all FINRA member firms are required to report trades for eligible US corporate bonds into TRACE.

Effective March 1, 2010, TRACE expanded to accept trade reports of agency debt transactions (as defined in revised Rule 6710). To support transparency in the Agency Debt market, FINRA, through its service provider NASDAQ, introduced the Agency Debt Trade Dissemination ServiceSM (ATDSSM). The ATDS data feed is used to broadcast eligible last sale price and other relevant trade data on agency debt transactions to authorized market data vendors. As the transactions are entered into TRACE, FINRA will automatically generate data messages to be disseminated real-time on ATDS.

ATDS is similar in message structure and delivery to the BTDS (Bond Trade Dissemination Service) data feed. Since ATDS is a separate product from BTDS, interested vendors must subscribe to receive the ATDS feed, regardless of whether or not they currently receive BTDS.

ATDS originates from NASDAQ data centers located in the New York and Mid-Atlantic areas. These locations provide back-up capability to one another in the event of an emergency at either site.

1.2 Scope

This document defines the communications interface and message format requirements for the output from ATDS. All references to a time of day in this specification are in Eastern Standard/Daylight Time. Direct access to FINRA and NASDAQ data feed products is available through select network providers (see Appendix I for the most current list of authorized network providers).

The ATDS data feed contains information from the CUSIP Service Bureau. As a result, a firm must have a CUSIP daily licensing agreement in place to receive the direct ATDS data feed product. Please refer to www.cusip.com for more information.

It should be noted that FINRA has the right to add, delete, or modify the message formats outlined in this document as needed. In advance of any data format changes, FINRA will publicly notify its ATDS customers by issuing a Technical Notice via email and on the FINRA.org website with the details of the release. FINRA will also update this ATDS interface specification document on a regular basis.

1.3 Document Scope/Software Releases

Effective **October 21, 2024**, FINRA will release a new version of the ATDS data feed formats, version ATDS 2.1(MOLD/UDP). The ATDS message formats support:

- New message protocol (MOLD/UDP)
- Automation of retransmissions via a dedicated unicast channel
- Trade ID now included in the Message Header
- Session Identifier, Retransmission Requester, and Message Sequence Number eliminated from the Message Header and now included in the message protocol layer
- Start of Day, End of Day, End of Trade Reporting, and End of Transmission Control messages will only be broadcast one time instead of three

This data feed interface specification document defines the message format requirements for the direct connect subscribers to the ATDS product. All time references in this data feed interface specification are stated in Eastern Standard/Daylight Time.

Please refer to Appendix D of this document for version control information. FINRA reserves the right to add, delete, or modify any of the message formats outlined in this document as needed. As noted above, direct data feed subscribers are required to code their systems to handle data feed format changes. In advance of each ATDS product change, FINRA will post a technical notice via the FINRA.org web site detailing the data feed format change and release schedule.

2.0 General System Description

2.1 Interface Protocol

ATDS is a separate channel on the private data work. Initially, the bandwidth for the ATDS channel will not exceed 56 kilobits per second (kbps). Please note that FINRA reserves the right to modify the bandwidth allocation for the IP call and/or to upgrade the network connectivity as system capacity dictates.

FINRA broadcasts two (a primary and a back-up) multicast groups at two locations (a primary data center and a disaster recovery data center) with ATDS data feeds. With the exception of the IP addresses, the data for the two multicast groups is identical. All messages sent from FINRA via ATDS to the client are sequenced, and their delivery is guaranteed by the [MoldUdp64 protocol](#).

<http://www.nasdaqtrader.com/content/technicalsupport/specifications/dataproducts/moldudp64.pdf>

2.2 Transmission Protocol

To minimize data loss, FINRA provides primary and back-up groups for its data feed services (At two locations; New York Metro and Mid-Atlantic Metro). They strongly recommend that all direct data feed subscribers program their systems to process both the primary and back-up groups.

The purpose of two host groups is to provide an extra layer of data redundancy within the extranet and end-user networks. By reading and utilizing both multicast groups into their production environment, IP multicast customers can help to protect themselves against network anomalies which could cause interruptions in data flow. To minimize data loss, FINRA strongly recommends that data feed customers process both the primary and back-up groups within their networks.

Each IP multicast stream will be assigned a unique Class D host group address for transmission via the extranets. The Class D addresses have been registered by NASDAQ with The NIC Group.

2.3 Retransmission Capability

Defined in MOLD/UDP 64 specification.

3.0 Transmission Characteristics

Defined in MOLD/UDP 64 specification.

4.0 Message Header

Each ATDS message will begin with a 24-byte header. The Message Header defines the type of data in the subsequent message. Please note that Alphabetic and Alphanumeric fields are left justified and space filled unless otherwise specified. Numeric fields are right justified and zero filled unless otherwise specified.

The Message Header always contains 24 characters consisting of the following data fields:

Message Category	Message Type	Trade Identifier	Market Center	Date/ Time
1	1	7	1	14

24 BYTES

4.1 Message Category

The Message Category is a 1 byte, alphabetic character. This field along with the Message Type identifies the message. The following table defines the Message Categories that ATDS supports.

Category	Usage
T	Trade
C	Control
A	Administrative

4.2 Message Type

The Message Type is a 1 byte, alphabetic character. This field further identifies the type of information included in the message. The following defines the Message Types (in conjunction with the Message Categories) for ATDS dissemination:

Trade Messages:

Category	Type	Usage
T	M	Trade Report
T	N	Trade Cancel
T	O	Trade Correction

Control Messages:

Category	Type	Usage
C	I	Start of Day
C	J	End of Day
C	O	Market Session Open
C	C	Market Session Close
C	X	End of Trade Reporting
C	Z	End of Transmissions

Administrative Messages:

Category	Type	Usage
A	E	Daily Trade Summary (Closing Recap)
A	H	Trading Halt
A	A	General Administrative Message (Future)
A	1 - 5	Market Aggregates

4.3 Trade Identifier

Trade Identifier (Trade Id) is an identifier for tracking trades. Cancel/Error or Correction messages will include the **original trade identifier** of the trade being canceled or corrected in the **Original Trade Identifier field in the body of the message**. The Trade Identifier is unique per session.

NOTE: The Trade Identifier field in the message header is populated for Trade and Correction messages only. Cancel messages do not include the Trade Identifier field in the message header.

4.4 Market Center Originator ID

The Market Center is a 1 byte, alphabetic character to indicate the Market Center or Exchange that originated the message.

Code	Usage
O	Over the Counter

4.5 Date/Time

ATDS will place a time stamp on each message disseminated to recipients of the service. The date/time is the calendar date and time that the record has entered into FINRA's trade reporting system. It is 14 bytes, Numeric, in the format:

Date Year (CCYY)	Date Month (MM)	Date Day (DD)	Time Hour (HH)	Time Minute (MM)	Time Second (SS)
4	2	2	2	2	2

Within these subsections, the values will be formatted in the following manner:

- **Date Year:** The year the transaction occurred. This four-byte field will be stated in numeric format, *e.g., 2012*.
- **Date Month:** The month the transaction occurred. This two-byte field will be stated in numeric format, *e.g., 02*.
- **Date Day:** The day of the month the transaction occurred. This two-byte field will be stated in numeric format, *e.g., 06*.
- **Time Hour:** The hour of the day the transaction occurred in military time. This two-byte field will be stated in numeric format, *e.g., 08*.
- **Time Minute:** The minute of the hour the transaction occurred. This two-byte field will be stated in numeric format, *e.g., 15*.
- **Time Second:** The second of the minute the transaction occurred. This two-byte field will be stated in numeric format, *e.g., 30*.

Note: All times are in Eastern Time.

5.0 Data Formats

This section outlines the fixed format Trade and Administrative message formats used to disseminate the ATDS data feed to direct connect subscribers. For field definitions, please refer to Section 7 of this specification document.

Note: ATDS Control message formats are comprised of the message header only. For processing information on the Control messages, please refer to Section 10 of this specification document.

5.1 Trade-Related Messages

The following message formats are used to disseminate ATDS. For processing guidelines, please refer to Section 8.

5.1.1 Trade Reports

Category T – Type M

The following message type is used to transmit agency debt trade transaction information to ATDS subscribers.

Label

Symbol	CUSIP	BSYM	Sub-Product Type
14	9	12	5

Subtotal: 40 Bytes

Additional Information

Original Dissemination Date
8

Subtotal: 8 Bytes

FINRA Agency Debt Trade Dissemination Service (ATDS)

Trade Information

Quantity Indicator	Quantity	Price	Remuneration	Special Price Indicator
1	14	11	1	1

Side	As/Of Indicator	Execution Date/Time	Future Use	Sale Condition 3
1	1	14	2	1

Sale Condition 4	Settlement Date	Yield Direction	Yield	When Issued Indicator
1	8	1	13	1

Reporting Party Type	Contra Party Type	ATS Indicator	<u>Allocations</u>
1	1	1	<u>5</u>

Subtotal: ~~7974~~ Bytes

Summary Information

Change Indicator
1

Subtotal: 1 Byte

Total Message Size: ~~128123~~ Bytes

5.1.2 Trade Cancel

Category T- Type N

This message is used to notify ATDS customers if a trade report entered during the current business day, or up to the past 19 business days, has been cancelled. A detailed summary section containing high/low/last sale price information for the issue will follow the original trade section.

Label

Symbol	CUSIP	BSYM	Sub-Product Type
14	9	12	5

Subtotal: 40 Bytes

Additional Information

Original Dissemination Date	Original Trade Identifier	Function
8	7	1

Subtotal: 16 Bytes

Original Trade Information

Quantity Indicator	Quantity	Price	Remuneration	Special Price Indicator
1	14	11	1	1

Side	As/Of Indicator	Execution Date/Time	Future Use	Sale Condition 3
1	1	14	2	1

Sale Condition 4	Settlement Date	Yield Direction	Yield	When Issued Indicator
1	8	1	13	1

Reporting Party Type	Contra Party Type	ATS Indicator	<u>Allocations</u>
1	1	1	<u>5</u>

Subtotal: 7974 Bytes

Summary Information

High Price	High Yield Direction	High Yield	Low Price	Low Yield Direction
11	1	13	11	1

Low Yield	Last Sale Price	Last Sale Yield Direction	Last Sale Yield	Change Indicator
13	11	1	13	1

Subtotal: 76 Bytes

Total Message Size: 211206 Bytes

5.1.3 Trade Correction

Category T, Type O

This following message format will be used to transmit trade correction data from a transaction that was entered either earlier in the day or within the past 19 business days. Original trade information is preceded by a label section and followed by a corrected trade section. A summary of information for the current day's transactions in the issue will follow the corrected trade information.

Label

Symbol	CUSIP	BSYM	Sub-Product Type
14	9	12	5

Subtotal: 40 Bytes

Additional Information

Original Dissemination Date	Original Trade Identifier	Function
8	7	1

Subtotal: 16 Bytes

FINRA Agency Debt Trade Dissemination Service (ATDS)

Original Trade Information

Quantity Indicator	Quantity	Price	Remuneration	Special Price Indicator
1	14	11	1	1

Side	As/Of Indicator	Execution Date/Time	Future Use	Sale Condition 3
1	1	14	2	1

Sale Condition 4	Settlement Date	Yield Direction	Yield	When Issued Indicator
1	8	1	13	1

Reporting Party Type	Contra Party Type	ATS Indicator	<u>Allocations</u>
1	1	1	<u>5</u>

Subtotal: 7974 Bytes

Correction Trade Information

Quantity Indicator	Quantity	Price	Remuneration	Special Price Indicator
1	14	11	1	1

Side	As/Of Indicator	Execution Date/Time	Future Use	Sale Condition 3
1	1	14	2	1

Sale Condition 4	Settlement Date	Yield Direction	Yield	When Issued Indicator
1	8	1	13	1

Reporting Party Type	Contra Party Type	ATS Indicator	<u>Allocations</u>
1	1	1	<u>5</u>

Subtotal: 7974 Bytes

FINRA Agency Debt Trade Dissemination Service (ATDS)

Summary Information

High Price 11	High Yield Direction 1	High Yield 13	Low Price 11	Low Yield Direction 1
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Low Yield 13	Last Sale Price 11	Last Sale Yield Direction 1	Last Sale Yield 13	Change Indicator 1
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Subtotal: 76 Bytes

Total Message Size: ~~285280~~ Bytes

5.2 Administrative Messages

FINRA will use administrative message formats to transmit daily pricing summary, trading halt, and general information to ATDS customers. Please refer to Section 9 of this document for processing information.

5.2.1 Daily Trade Summary

Category A – Type E

FINRA will disseminate the following price summary message for each agency debt security that traded during the day during the normal trading hours.

Symbol	CUSIP	BSYM	Sub-Product Type	When Issued Indicator
14	9	12	5	1

Daily High Price	High Yield Direction	Daily High Yield	Daily Low Price	Low Yield Direction
11	1	13	11	1

Daily Low Yield	Daily Close Price	Close Yield Direction	Daily Close Yield
13	11	1	13

Total Message Size: 116 Bytes

5.2.2 Trading Halt

Category A – Type H

FINRA will disseminate the following message format when a trading halt is instituted or removed for an agency debt security.

Symbol	CUSIP	BSYM	Sub-Product Type	Issuer
14	9	12	5	30

Action	Action Date/Time	Halt Reason
1	14	4

Total Message Size: 89 Bytes

5.2.3 General Administrative Message

Category A – Type A

In a future release, FINRA may disseminate the following free-form text message format to relay general administrative information.

Text
1 – 300

5.2.4 End of Day Market Aggregate Data

FINRA currently provides Market Aggregate data at the end of the day to TRACE users via API files and the TRAQS web application. That data is now available via the ATDS feed. The Aggregates information represents activity in TRACE eligible publicly traded securities reported to TRACE on the day. The data is disseminated via multiple message types.

Market Breadth – End of Day

Category A – Type 1

Total Securities Traded All Securities 6	Total Securities Traded Freddie Mac 6	Total Securities Traded Fannie Mae 6	Total Securities Traded FHLB 6
Advances All Securities 6	Advances Freddie Mac 6	Advances Fannie Mae 6	Advances FHLB 6
Declines All Securities 6	Declines Freddie Mac 6	Declines Fannie Mae 6	Declines FHLB 6
Unchanged All Securities 6	Unchanged Freddie Mac 6	Unchanged Fannie Mae 6	Unchanged FHLB 6
52 Week High All Securities 6	52 Week High Freddie Mac 6	52 Week High Fannie Mae 6	52 Week High FHLB 6
52 Week Low All Securities 6	52 Week Low Freddie Mac 6	52 Week Low Fannie Mae 6	52 Week Low FHLB 6
Total Volume All Securities 13	Total Volume Freddie Mac 13	Total Volume Fannie Mae 13	Total Volume FHLB 13

Total Message Size: 196 Bytes

FINRA Agency Debt Trade Dissemination Service (ATDS)

Market Sentiment – All Securities

Category A – Type 2

Market Sentiment – Fannie Mae

Category A – Type 3

Market Sentiment – FHLB

Category A – Type 4

Market Sentiment – Freddie Mac

Category A – Type 5

Total Number of Transactions All Securities 6	Total Securities Traded All Securities 6	Total Volume All Securities 13
Total Number of Transactions Customer Buy 6	Total Securities Traded Customer Buy 6	Total Volume Customer Buy 13
Total Number of Transactions Customer Sell 6	Total Securities Traded Customer Sell 6	Total Volume Customer Sell 13
Total Number of Transactions Affiliate Buy 6	Total Securities Traded Affiliate Buy 6	Total Volume Affiliate Buy 13
Total Number of Transactions Affiliate Sell 6	Total Securities Traded Affiliate Sell 6	Total Volume Affiliate Sell 13
Total Number of Transactions Inter-Dealer 6	Total Securities Traded Inter-Dealer 6	Total Volume Inter-Dealer 13

Total Message Size: 150 Bytes (*for each Message Type 2 - 5*)

Note: All five of the Market Aggregate messages (Message Types 1 through 5) are generated and disseminated once during the day, shortly after 6:30pm ET.

Field Descriptions for Market Aggregate Messages

Total Securities Traded

Category A – Types 1 - 7

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues traded on the day.

Advances

Category A – Type 1

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues where the closing price for the day is higher than the prior closing price.

Declines

Category A – Type 1

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues where the closing price for the day is lower than the prior closing price.

Unchanged

Category A – Type 1

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues where the closing price for the day remains the same as the prior closing price.

52 Week High

Category A – Type 1

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues where the closing price for the day is higher than a prior closing price within the past 52 business weeks (on a rolling basis).

52 Week Low

Category A – Type 1

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of issues where the closing price for the day is lower than a prior closing price within the past 52 business weeks (on a rolling basis).

Total Volume

Category A – Types 1 - 7

Thirteen bytes, numeric, stated in \$\$\$\$\$\$.dddddd format, where the first six bytes represent the whole dollar (in millions), the seventh byte is a decimal point, and the last six bytes represent the decimal amount (under a million). Leading zeros used when necessary. This field represents the current day's total traded par value (in millions).

Total Number of Transactions

Category A – Types 2 - 7

Six bytes, numeric. The field is right-justified, with leading zeros. This field represents the total number of valid trades (same-day executions that were disseminated and not subsequently cancelled) reported on the day.

Additional Definitions for Market Aggregate Messages

All Securities

Category A – Types 1 - 7

Data calculated on all TRACE eligible securities reported on the day and disseminated via ATDS.

Customer Buy

Category A – Types 2 - 7

Data calculated on all trades reported to TRACE and disseminated via ATDS where the reporting firm indicates it bought from a customer who is not a FINRA member firm.

Customer Sell

Category A – Types 2 - 7

Data calculated on all trades reported to TRACE and disseminated via ATDS where the reporting firm indicates it sold to a customer who is not a FINRA member firm.

Affiliate Buy

Category A – Types 2 - 7

Data calculated on all trades reported to TRACE and disseminated via ATDS where the reporting firm indicates it bought from a non-member affiliated entity of a FINRA member firm.

Affiliate Sell

Category A – Types 2 - 7

Data calculated on all trades reported to TRACE and disseminated via ATDS where the reporting firm indicates it sold to a non-member affiliated entity of a FINRA member firm.

Inter-Dealer

Category A – Types 2 - 7

Data calculated on all trades reported to TRACE and disseminated via ATDS where the reporting firm indicates it sold to another FINRA member firm.

6.0 Field Occurrence Matrix

The following table outlines the Message Category and Message Type by field name:

FIELD NAME	MESSAGE CATEGORY	MESSAGE TYPE
<u>A</u>		
ACTION	A	H
ACTION DATE/TIME	A	H
<u>ALLOCATIONS</u>	<u>T</u> <u>T</u> <u>T</u>	<u>M</u> <u>N</u> <u>O</u>
AS/OF INDICATOR	T T T	M N O
ATS INDICATOR	T T T	M N O
<u>B</u>		
BSYM	T T T A A	M N O E H
<u>C</u>		
CHANGE INDICATOR	T T T	M N O
CLOSE YIELD DIRECTION	A	E
CONTRA PARTY TYPE	T T T	M N O

FINRA Agency Debt Trade Dissemination Service (ATDS)

FIELD NAME	MESSAGE CATEGORY	MESSAGE TYPE
CUSIP	T T T A A	M N O E H
<u>D</u>		
DAILY CLOSE PRICE	A	E
DAILY CLOSE YIELD	A	E
DAILY HIGH PRICE	A	E
DAILY HIGH YIELD	A	E
DAILY LOW PRICE	A	E
DAILY LOW YIELD	A	E
<u>E</u>		
EXECUTION DATE/TIME	T T T	M N O
<u>F</u>		
FUNCTION	T T	N O
<u>H</u>		
HALT REASON	A	H
HIGH PRICE	T T	N O
HIGH YIELD	T T	N O
HIGH YIELD DIRECTION	A T T	E N O
<u>I</u>		

FINRA Agency Debt Trade Dissemination Service (ATDS)

FIELD NAME	MESSAGE CATEGORY	MESSAGE TYPE
ISSUER	A	H
<u>L</u>		
LAST SALE PRICE	T T	N O
LAST SALE YIELD	T T	N O
LAST SALE YIELD DIRECTION	T T	N O
LOW PRICE	T T	N O
LOW YIELD	T T	N O
LOW YIELD DIRECTION	A T T	E N O
<u>O</u>		
ORIGINAL DISSEMINATION DATE	T T T	M N O
ORIGINAL TRADE IDENTIFIER	T T	N O
<u>P</u>		
PRICE	T T T	M N O
<u>Q</u>		
QUANTITY	T T T	M N O

FINRA Agency Debt Trade Dissemination Service (ATDS)

FIELD NAME	MESSAGE CATEGORY	MESSAGE TYPE
QUANTITY INDICATOR	T T T	M N O
<u>R</u>		
REMUNERATION	T T T	M N O
REPORTING PARTY TYPE	T T T	M N O
<u>S</u>		
SALE CONDITION 3	T T T	M N O
SALE CONDITION 4	T T T	M N O
SETTLEMENT DATE	T T T	M N O
SIDE	T T T	M N O
SPECIAL PRICE INDICATOR	T T T	M N O
SUB-PRODUCT TYPE	A A T T T	E H M N O

FINRA Agency Debt Trade Dissemination Service (ATDS)

FIELD NAME	MESSAGE CATEGORY	MESSAGE TYPE
SYMBOL	T	M
	T	N
	T	O
	A	E
	A	H
<u>T</u>		
TEXT	A	A
<u>W</u>		
WHEN ISSUED INDICATOR	T	M
	T	N
	T	O
	A	E
<u>Y</u>		
YIELD	T	M
	T	N
	T	O
YIELD DIRECTION	T	M
	T	N
	T	O

7.0 Field Definitions

This section defines the size and layout for each field contained in an ATDS message format. For a glossary of agency debt-related terms, please refer to Appendix A.

A

Action

Category A – Type H

One byte, alphabetic. This field describes what event is happening on the specific security. Associated values are:

Code	Value
H	Trading Halt (Action Date/Time field represents date and time that the halt was instituted for the security)
R	Trading Resumption (Action Date/Time field represents the date and time that trading is expected to resume in the security)

Action Date/Time

Category A – Type H

Fourteen bytes, numeric in the format YYYYMMDDHHMMSS. This field represents the date and time that the trading halt was instituted or lifted for the specified security.

Allocations

Category T – Type M, N, O

Five bytes, numeric, zero filled. Values 2-99999. Allocation Quantity represents the reported number of managed accounts to which the trade quantity is allocated. if allocation is reported, allowable values are 00002 through 99999. If no allocation quantity is reported, then 00000.

As Of Indicator

Category T – Type M, N, O

One byte, alphabetic. This field will be populated if the transaction being reported is an As/Of trade, Reversal, Cancel or Correction from a prior business day. Associated values for this field are:

Code	Value
A	As/Of Trade
R	Reversal
Space	Current Day Trade

ATS Indicator

Category T – Type M, N, O

One byte, alphabetic. This field will be populated if the transaction being reported is an ATS execution. An ATS execution can be either where an ATS reports the trade, is a contra party to the trade, or is neither but the trade is executed on an ATS’s platform. Associated values for this field are:

Code	Value
Y	ATS Trade
Space	Not an ATS Trade

B

BSYM

Category T – Type M, N, O

Category A – Type E, H

12 bytes, alphanumeric. This is the Bloomberg identifier for the specific agency bond.

C

Change Indicator

Category T – Type M, N, O

One byte, numeric. Describes the price change(s) that the transaction caused for the issue traded.

Code	Values
0	No Price/Yield Changed
1	Last Price/Yield Changed
2	Low Price/Yield Changed
3	Last Price/Yield and Low Price /Yield Changed
4	High Price/Yield Changed
5	Last Price/Yield and High Price/Yield Changed
6	High Price/Yield and Low Price/Yield Changed
7	All Prices/Yields Changed

Contra Party Type

Category T – Type M, N, O

One byte, alphabetic. This field identifies the type of contra party which the reported trade was executed against - a Broker/Dealer, a Customer (non-FINRA member) an Affiliate (non-member affiliate) or an Alternative Trading System (ATS). Associated values are as follows:

Code	Value
D	Contra party is a Broker/Dealer
C	Contra party is a Customer (non-FINRA member)
A	Contra party is a non-member affiliate
T	Contra party is an Alternative Trading System (ATS)

CUSIP

Category T – Type M, N, O

Category A – Type H

Nine bytes, alphanumeric. This is the universal identifier for the specific agency bond as assigned by Standard & Poor’s CUSIP Service Bureau.

D

Daily Close Price

Category A – Type E

Eleven bytes, numeric, zero filled. This will represent the closing price reported for the specific bond for the day. Daily Close Price is stated in \$\$\$\$. d d d d d d format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Daily Close Price is not available for a bond, this field will be zero filled.

Daily Close Yield

Category A – Type E

Thirteen bytes, numeric, zero filled. Daily Close Yield is stated in \$\$\$\$ \$. d d d d d d format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the closing yield associated with the Daily Close Price for the specific bond for the day. FINRA will leave the field blank if no yield is available.

Daily High Price

Category A – Type E

Eleven bytes, numeric, zero filled. This will represent the high price reported for the specific bond for the day. Daily High Price is stated in \$\$\$\$. d d d d d d format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Daily High Price is not available for a bond, this field will be zero filled.

Daily High Yield

Category A – Type E

Thirteen bytes, numeric, zero filled. Daily High Yield is stated in \$\$\$\$ \$. d d d d d d format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the high yield associated with the Daily High Price for the specific bond for the day. FINRA will leave the field blank if no yield is available.

Daily Low Price

Category A – Type E

Eleven bytes, numeric, zero filled. This will represent the low price reported for the specific bond for the day. Daily Low Price is stated in \$\$\$\$. d d d d d d format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Daily Low Price is not available for a bond, this field will be zero filled.

Daily Low Yield

Category A – Type E

Thirteen bytes, numeric, zero filled. Daily Low Yield is stated in \$\$\$\$\$.ddddd format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the low yield associated with the Daily Low Price for the specific bond for the day. FINRA will leave the field blank if no yield is available.

E

Execution Date/Time

Category T – Type M, N, O

Fourteen bytes, numeric in the format YYYYMMDDHHMMSS. This field represents the date and time that the FINRA member firm executed the trade transaction. If the transaction reported was an As/Of trade or a Reversal, this field will be populated with the date and time that the original trade was executed by the FINRA member firm.

E

Function

Category T – Type N, O

One byte, alphabetic. This field indicates if the transaction being disseminated is being taken out because it either is being canceled or was done in error. Associated values are:

Code	Value
C	Cancel
E	Error
N	Correction

H

Halt Reason

Category A – Type H

Four bytes, alphanumeric. This field describes the specific reason for a halt being placed on a bond issue. Associated values are:

Code	Values
T.1	Halt – News Pending
T.2	Halt – News Released
T.3	Halt – News and resumption times
T.12	Halt – Additional Information Requested by FINRA
H.10	Halt – SEC Trading Suspension
H.11	Halt - Regulatory Concerns

High Price

Category T – Type N, O

Eleven bytes, numeric, zero filled. The High Price field contains the current highest price for which the specified bond issue was traded for the current day. The High Price will be stated in \$\$\$\$. d d d d d d format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the High Price is not available for a bond, this field will be zero filled.

High Yield

Category T – Type N, O

Thirteen bytes, numeric, zero filled. High Price Yield is stated in \$\$\$\$ \$. d d d d d d format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the value calculated by the system for the yield associated with the high price of the day. FINRA will leave the field blank if no yield is available.

High Yield Direction

Category T – Type N, O

Category A – Type E

One byte, alphanumeric including special characters. This field indicates the yield direction for the High Price Yield field. Associated values for this field are as follows:

Code	Value
- (Minus sign)	Negative Yield
Space	Positive or Zero Yield

I

Issuer

Category A – Type H

Thirty bytes, alphanumeric. This field will provide the name of the Agency or Government-sponsored enterprise that issued the security. Please note that, due to character limitations, the company name may be truncated for this field.

L

Last Sale Price

Category T – Type N, O

Eleven bytes, numeric, zero filled. This will represent the last sale price reported for the specific bond for the day. The Last Sale Price will be stated in \$\$\$\$. d d d d d format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Last Sale Price is not available for a bond, this field will be zero filled.

Last Sale Yield

Category T – Type N, O

Thirteen bytes, numeric, zero filled. Last Sale Yield is stated in \$\$\$\$ \$. d d d d d format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the value calculated by the system for the yield associated with the last price of the day. FINRA will leave the field blank if no yield is available.

Last Sale Yield Direction

Category T – Type N, O

One byte, alphanumeric including special characters. This field indicates the yield direction for the Last Sale Yield field. Associated values for this field are as follows:

Code	Value
- (Minus sign)	Negative Yield
Space	Positive or Zero Yield

Low Price

Category T – Type N, O

Eleven bytes, numeric, zero filled. This will represent the current low price for which the specified bond issue was traded for the day. The Low Price will be stated in \$\$\$\$\$.dddddd format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Low Price is not available for a bond, this field will be zero filled.

Low Yield

Category T – Type N, O

Thirteen bytes, numeric, zero filled. Low Price Yield is stated in \$\$\$\$\$\$.dddddd format, where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. This will represent the value calculated by the system for the yield associated with the low price of the day. FINRA will leave the field blank if no yield is available.

Low Yield Direction

Category T – Type N, O

One byte, alphanumeric including special characters. This field indicates the yield direction for the Low Price field. Associated values for this field are as follows:

Code	Value
- (Minus sign)	Negative Yield
Space	Positive or Zero Yield

O

Original Dissemination Date

Category T – Type M, N, O

Eight bytes, numeric, in YYYYMMDD format. On Trade Report messages (Category T – Type M), this field will be populated on Reversals (As/Of Indicator = R) only, to indicate the date the original trade was disseminated. On non Reversals, the field will be blank. On Trade Cancel and Trade Correction messages, the field will be populated with the date the original trade was disseminated, including same day Cancels and Corrections.

Original Trade Identifier

Category T – Type N, O

Seven bytes, numeric. The Original Trade Identifier field indicates the id of the original outbound message for the transaction being reversed. This field will be zero filled when not applicable.

P

Price

Category T – Type M, N, O

Eleven bytes, numeric, zero filled. This field represents the bond price is inclusive of any commission, mark-ups, and/or mark-downs reported by the sell-side firm in the trade transaction. The Price will be stated in \$\$\$\$.\$\$\$\$\$ format, where the first four bytes represents the dollar, the fifth byte is a decimal point, and the last six bytes represents the decimal amount of the trade price. If the Price is not reported for a bond, this field will be zero filled.

Q

Quantity

Category T – Type M, N, O

Fourteen bytes, alphanumeric, including special characters. The field is right-justified, zero-filled unused positions with a decimal in the twelfth position on actual amounts and left-justified, space-filled unused positions on amounts with special limits applied (capped) as defined below. This field represents the par value volume of the transaction.

Please note that the following special limits apply to this field:
All agency bonds shall be rated as **Investment Grade** bonds:

- If the par value of the transaction is less than or equal to \$5 million, the quantity will state the actual par value of the trade.
- If the par value of the transaction is greater than \$5 million, the quantity field will show 5MM+.

Quantity Indicator

Category T – Type M, N, O

One byte, alphabetic. This field indicates if the quantity reported is actual or estimated. Associated values are as follows:

Code	Value
A	Actual
E	Estimated

R

Remuneration

Category T – Type M, N, O

One byte, alphabetic. This field identifies if the reported trade price includes remuneration. Remuneration only applies on Customer and Affiliate trades. Associated values are as follows:

Code	Value
C	Commission is included in the price
M	A Markup or Markdown is included in the price
N	No Commission or Markup/Markdown is included in the price
Space	No value assigned on Inter-Dealer trades

Reporting Party Type

Category T – Type M, N, O

One byte, alphabetic. This field identifies the type of entity that reported the trade. Associated values are as follows:

Code	Value
D	Reporting party is a Broker/Dealer
T	Reporting Party is an Alternative Trading System (ATS)

S

Sale Condition 3

Category T – Type M, N, O

One byte, alphanumeric including special characters. This field will indicate if there are any special conditions or modifiers applicable to the trade transaction. Associated values are:

Code	Value
Space	No Special Sale Condition
Z	Trade Reported Late (Out of Sequence)
T	Trade Reported After Market Hours
U	Trade Reported Late After Market Hours

For more information on these sale conditions, please refer to Appendix A and Appendix C in this document.

Sale Condition 4

Category T – Type M, N, O

One byte, alphanumeric. This field is used to describe a second sale condition that is applicable to the trade. Associated values are:

Code	Value
W	Weighted Average Price
P	Portfolio Trade
Space	No Second Modifier Applicable

Settlement Date

Category T – Type M, N, O

Eight bytes, numeric, in YYYYMMDD format. This field indicates the reported settlement date of the trade.

Side

Category T – Type M, N, O

One byte, alphabetic. This field identifies the side (i.e., Buy or Sell) from the reporting party’s perspective. Only one side of an Inter-dealer transaction is disseminated, which will be identified as the sell side from the reporting party’s perspective. Associated values are as follows:

Code	Value
B	Reporting party bought from contra party
S	Reporting party sold to contra party

Special Price Indicator

Category T – Type M, N, O

One byte, Alphanumeric. This field indicates the existence of a special trade condition that impacted the execution price, or if the transaction is a “specified trade.” Associated values are:

Code	Value
Y	Special Price Trade
Space	Not a Special Price Trade

Sub-Product Type

Category T – Type M, N, O

Category A – Type E, H

Five bytes, alphanumeric. This field will identify the type of debt security traded. Associated values are:

Code	Value
AGCY	Agency Bond

Symbol

Category T – Type M, N, O

Category A – Type E, H

Fourteen bytes, alphanumeric. This field will represent the agency bond issue symbol as assigned by FINRA for TRACE trade reporting purposes.

I

Text

Category A – Type A

Variable length (1 to 300 bytes), alphanumeric including special characters. This free-form text field will be used to relate general administrative or market information to ATDS subscribers.

W

When Issued Indicator

Category T – Type M, N, O

Category A – Type E

One byte, alphanumeric. This field indicates if the issue is trading on a when issued basis. Associated values are:

Code	Value
W	When Issued
Space	Not When Issued

Y

Yield

Category T – Type M, N, O

Thirteen bytes, numeric. Yield is stated in \$\$\$\$\$.dddddd format , where the first six bytes represents the dollar, the seventh byte is a decimal point, and the last six characters represents the decimal amount of the trade price. The Yield field indicates the effective rate of return earned on a security as calculated by the system and is expressed as a percentage. FINRA will leave the field blank if no yield is available.

Yield Direction

Category T – Type M, N, O

One byte, alphanumeric including special characters. This field indicates the yield direction for the subsequent Yield field. Associated values for this field are as follows:

Code	Value
- (Minus sign)	Negative Yield
Space	Positive or Zero Yield

8.0 Trade Processing

This section provides general processing and display guidelines for ATDS data.

8.1 Background Information

ATDS will carry fixed income trade data reported by FINRA members via the TRACE system on a real-time basis between 8:00 and 18:30 ET. The ATDS data feed will carry price information for the following types of fixed income securities:

Debt securities that are:

- U.S. dollar denominated, and
- Issued or guaranteed by an Agency or issued or guaranteed by a Government-Sponsored Enterprise, and
- At issuance has a maturity of one year or more.

Note: the ATDS feed does not include Asset-Backed Securities issued by Agencies or GSE's (such as Pass-Through Mortgage Backed Securities).

A complete list of TRACE securities (Security Master) is available daily through download via API. The Issue Master includes Agency Debt securities.

The following types of transactions will not be disseminated via the ATDS data feed:

- Reported transactions of less than \$1,000.00.
- Transactions in 144A (private placement) securities.
- Transactions in US exchange-listed bonds that are executed on and reported directly to the exchange.
- Fixed or List Offering Price primary market transactions.

8.2 Display Requirements

FINRA requires that external redistributors of real-time ATDS data include the following fields on their display for a single bond issue:

- Bond Identifier (Symbol or CUSIP number).
- When Issued Indicator (if applicable).
- Price.
- Remuneration (if applicable).
- Special Price Indicator (if applicable).
- Yield.
- Quantity.
- Sale Condition Modifiers (if applicable).
- Reversal Indicator (if applicable).
- Execution Date/Time.
- Side.
- Reporting Party Type.
- Contra Party Type.

Provided that the market data vendor provides at least one display screen that adheres to this display requirement, FINRA will waive the requirement for any market minder, analytical, or ticker display screens.

8.3 Trade Processing

8.3.1 Bond Identifier

The ATDS data feed includes three identifiers for each bond:

- **Symbol:** FINRA will assign its own bond symbols for use by TRACE users. The TRACE symbol may be up to fourteen characters in length and will consist of a root symbol for the issuer plus an instrument identifier code for each bond. [Example: FNMA.GA.]
- **CUSIP:** A CUSIP number is a unique nine-character alphanumeric code assigned to a security by Standard & Poor's Corporation. The CUSIP is a universal identifier code that does not vary from market to market. As noted earlier, a firm must have a daily licensing agreement in place with Standard & Poor's to receive a direct ATDS data feed product.
- **BSYM:** The BSYM is the 12-byte alphanumeric code assigned by Bloomberg to the security.

8.3.2 When Issued Indicator

FINRA allows its members to trade securities on a “when issued” basis. The term refers to a conditional security: one authorized for issuance but not yet actually issued. All “when issued” transactions are on an “if” basis, to be settled if and when the actual security is issued. If a security is being traded on such a conditional basis, the When Issued field in the ATDS message format will be populated with a value of W. For display purposes, the when issued indicator typically would appear as “w/i” next to the bond symbol.

8.3.3 Price and Associated Indicators

FINRA will disseminate bond prices on ATDS in \$\$\$\$\$.ddddd format. For ATDS display purposes, FINRA recommends that the price should be shown at the same granularity as it was disseminated whenever possible. If a firm chooses to shorten the price field, FINRA recommends that they round (rather than truncate) prices. At a minimum, a firm should be prepared to display prices to three places to the right of the decimal point as this is how it appears on customer statements. As outlined in Section 7, FINRA will disseminate the field as 0000.000000 if no price is reported for a trade. For ATDS display purposes, the price field should be shown blank under this circumstance.

Transactions disseminated via ATDS will represent the bond price paid by the buyer inclusive of any and all markups, markdowns, or commissions. Within the ATDS trade message format, there are two toggle fields to indicate if the reported price reflects a broker commission and/or a special trading situation. For ATDS display purposes, the price must be shown with the commission and special price indicator if populated. FINRA recommends that the commission indicator be shown as a lower case “c” to the right of the price, and the Special Price indicator as an asterisk “*” right of the price.

8.3.4 Yield

FINRA calculates and disseminates bond yield on ATDS in \$\$\$\$\$.ddddd format. Yield is typically expressed as a percentage. For ATDS display purposes, FINRA recommends that the yield should be shown at the same granularity as it was disseminated whenever possible. If a firm chooses to shorten the yield field, FINRA recommends that they round (rather than truncate) yields. At a minimum, a firm should be prepared to display yields to three places to the right of the decimal point as this how it appears on customer statements.

Yield represents a customer’s rate of return on investment. As outlined in Section 7, FINRA will leave the yield field blank if no yield is available.

8.3.5 Quantity

All agency bonds are recognized as having a quality rating of Investment Grade. Accordingly, the Investment Grade volume "cap" rules by which either actual volume for the respective transaction will be disseminated or a "cap" value will be disseminated will be applied to all agency bond trades. FINRA strongly recommends that the ATDS recipient indicate when the volume is actual versus estimated for each transaction. The breakdown of ATDS volume dissemination rules is as follows:

- Transactions of \$5,000,000 or less in par value will be disseminated with the actual volume in the transaction. The Quantity Indicator value will be "A".
- Transactions greater than \$5,000,000 par value will be disseminated as 5MM+. The Quantity Indicator value will be "E".

Note: There will be no current daily cumulative volume included in the summary portion of the cancel and correction messages or in the closing reports sent by ATDS.

8.3.6 As/Of Indicator

FINRA allows its members to report trades and trade reversals on an "As/Of" basis. In the As/Of Indicator field in the ATDS message format, regular As/Of trades are denoted by a value of A and Reversals by a value of R. For ATDS display purposes, FINRA requires that firms show a special indicator for Reversal trade conditions. FINRA recommends that the Reversal indicator be shown as the letters "RV" and should be displayed to the left of the price. Display of the As/Of indicator is optional. If the As/Of indicator is included in ATDS displays, FINRA recommends that the As/Of indicator be shown as "A/O" and should be displayed to the left of the price.

If the trade is an As/Of transaction, the Execution Date/Time field in the ATDS message will be populated with the actual trade date and time of the original transaction. While FINRA recommends that firms should show both the Execution Date and Execution Time for all transactions, it realizes that external redistributors may have limited screen space. If a firm chooses to show only one date/time field, it should display the Execution Time for current day transactions but the Execution Date for As/Of transactions.

8.3.7 Sale Condition Modifiers

FINRA members will also report if any of the following sale conditions applied to the trade:

Code	Value
Z	Reported Late (Out of Sequence)
T	Reported After Market Hours
U	Reported Late After Market Hours
W	Weighted Average Price Trade
P	Portfolio Trade

Please refer to the Appendix A – Glossary of Terms for a description of each modifier. For ATDS display purposes, the sale condition modifiers must be shown, preferably as separate field(s) on a bond display.

8.3.8 Price Change Indicator

In Appendix C of this document, FINRA has outlined its logic for updating the high, low, and last sale prices for a bond issue. Since there are a number of sale conditions modifiers and indicators that must be considered in the calculation, FINRA also includes a Price Change Indicator field in the ATDS message format. As outlined in Section 7, the possible values for the Price Change Indicator field are as follows:

Code	Values
0	No Price/Yield Changed
1	Last Price/Yield Changed
2	Low Price/Yield Changed
3	Last Price/Yield and Low Price /Yield Changed
4	High Price/Yield Changed
5	Last Price/Yield and High Price/Yield Changed
6	High Price/Yield and Low Price/Yield Changed
7	All Prices/Yields Changed

In the Trade Report (Category T – Type M) format, the Price Change Indicator field appears as the last field in the message. Depending on the value in the Price Change Indicator field, the firm should use the Price and Yield values contained in the trade report message to update its high, low, and/or last sale fields for the bond issue.

In the Trade Cancel (Category T – Type N) and Trade Correction (Category T – Type O) formats, the Price Change Indicator appears as the last field in the Summary Information section of the message. Depending on the value in the Price Change Indicator field, the firm should use the appropriate price and yield value(s) from the Summary Information to update its high, low, and/or last sale display.

8.3.9 Side

Side indicates whether the transaction is a buy or sell. Only the sell side of an inter-dealer (broker-dealer to broker-dealer) transaction is disseminated. For ATDS display purposes, FINRA requires that the Side be shown and recommends using the same values provided in the ATDS message.

8.3.10 Reporting Party Type

Reporting Party Type indicates what type of entity reported the trade. In the ATDS trade messages, the reporting entity will be either a broker-dealer identified by the value "D" or an Alternative Trading System (ATS) identified by the value "T". For ATDS display purposes, FINRA requires that the Reporting Party Type be shown and recommends using the same values provided in the ATDS message.

8.3.11 Contra Party Type

Contra Party Type indicates whether the contra party of the transaction is a broker-dealer, a customer, an affiliate or an ATS. In the ATDS trade messages, broker-dealer contra trades are identified by the value "D", customer contra trades are identified by the value "C", affiliate contra trades are identified by the value "A" and ATS contra trades are identified by the value "T". An affiliate is a non-member entity that controls, is controlled by or is under common control with a FINRA member, as further defined under FINRA Rule 6710. For ATDS display purposes, FINRA requires that the Contra Party Type be shown and recommends using the same values provided in the ATDS message.

8.4 Trade Cancel and Correction Processing

FINRA allows its member firms to correct or cancel trades reported earlier in the current business day, or up until the past 19 business days. (Note: If a FINRA member firm cancels a transaction reported prior to the past 19 business days, it must be entered into TRACE as an As/Of Trade Reversal. Please see section 8.3.6 for As/Of processing guidelines.) As outlined in section 5 of this document, the Trade Cancel (Category T – Type N) and Trade Correction (Category T – Type O) formats reference the original trade transaction via the message label and original trade information portions of the message. In addition, FINRA will include the adjusted daily high, low, and last sale prices and yields as part of the Summary Information portion of these ATDS message formats between 08:00 and 17:15 (only on same day cancels and corrections).

8.4.1 Display Guidelines for Trade Cancellations (current day cancels)

Upon receipt of a Trade Cancel (Category T- Type N) message, ATDS recipients should take the following steps:

- 1) Locate the original trade report entry using the ATDS trade identifier.
- 2) Modify the original trade report entry by adding a cancellation indicator. FINRA recommends that firms display the letter "X" to the left of the trade price to reflect a cancellation.
- 3) Update the daily high, low, and last sale prices as necessary. See the Price Change Indicator processing rules above.

Note: For prior day cancels, the original trade can be located using the Original Dissemination Date and Original Trade Identifier Number of the trade when it was disseminated. Daily high, low and last sale prices will not be updated.

8.4.2 Display Guidelines for Trade Corrections (current day corrections)

Upon receipt of a Trade Correction (Category T – Type O) message, ATDS recipients should take the following steps:

- 1) Locate the original trade report entry using the ATDS trade identifier number.
- 2) Modify the original trade report in the following manner:
 - a) Replace the original trade with the new data in the Corrected Trade Information portion of the message.
 - b) Add a correction indicator to the trade record. FINRA recommends that firms display "N/W" to the left of the new trade price to reflect a "No/Was" transaction.
- 3) Update the daily high, low, and last sale prices as necessary. See the Price Change Indicator processing rules above.

Note: For prior day corrections, the original trade can be located using the Original Dissemination Date and Original Trade Identifier of the trade when it was disseminated. Daily high, low and last sale prices will not be updated.

Please refer to Appendix D for the complete list of FINRA-recommended bond display standards.

9.0 Administrative Message Processing Guidelines

This section outlines the processing guidelines for administrative messages on the ATDS. In its initial release, FINRA will support two types of administrative messages: Daily Trade Summary Recaps and Trading Halts.

In a future release, FINRA plans to introduce General Administrative and Issue Maintenance message format for ATDS subscribers. In the initial release, however, ATDS subscribers should process the Daily List file available on the TRACE website or via API for bond additions, deletions, and modifications.

9.1 Daily Trade Summary

At approximately 17:20, FINRA will generate and disseminate a trade summary report for those agency debt securities traded on the day. This ATDS Trade Summary report will include the high, low, and closing price and yield for those issues with trading volume for the current business day. If a bond did not have any volume for the day, it will not be included in that day's closing report.¹

Please note that FINRA members may enter trade reports, cancels, and corrections into the TRACE system until 18:30; however, entries made after 17:15 will not impact the high, low, or closing price or yield for the day.

9.2 Trading Halts

FINRA reserves the right to halt trading in an agency bond by its members as material news is released. When a trading halt is instituted or removed, FINRA will disseminate a trading halt message on ATDS to notify traders and investors. This ATDS message will include the FINRA-assigned symbol, CUSIP number, halt reason, action date and time. **ATDS recipients must display a "held" indicator whenever a bond is subject to a trading halt situation.**

In the initial ATDS release, FINRA will only disseminate a trading halt message at the time of an action change. Since trading halt situations can span multiple days, ATDS recipients must retain trading halt status information from day to day.²

9.2.1 Market Aggregates

FINRA calculates and disseminates Market Aggregates data in the form of Market Breadth and Market Sentiments. This data is generated at the end of the day and represents statistical trading data calculated from 08:00 ET until 18:30 ET. This data is for informational purposes only.

¹ As/of trades and Reversals will not be reflected in the ATDS Closing Recap Report.

² At the onset of service, ATDS vendors may request a file of current trading halt information from which to build their database. Requests should be sent via e-mail to TRACEDataServices@finra.org.

10.0 Control Message Processing Guidelines

10.1 Hours of Operation

The following Control Messages will be transmitted by ATDS:

Category	Type	Description
C	I	Start of Day
C	J	End of Day
C	O	Market Session Open
C	C	Market Session Closed
C	X	End of Trade Session
C	Z	End of Transmissions

10.2 Control Message Descriptions

A Control message is a fixed format message that performs a specific system function. All ATDS Control Messages consist of a Standard Message Header only. The Message Type field will contain the appropriate single ASCII character that identifies the Control Message type.

Category	Type	Description
C	I	Start of Day
C	J	End of Day
C	K	End of Retransmission Requests
C	X	End of Trade Session
C	Z	End of Transmissions

10.3 Start Of Day

Category C – Type I

The Start of Day Control Message signifies the beginning of FINRA’s daily operational cycle. The message will be sent at the beginning of each day. The purpose of this message is to inform ATDS recipients that all subsequent data transmitted will be real-time updates and should be treated accordingly.

10.4 End Of Day

Category C – Type J

The End of Day Control Message signals the end of activity for the operational cycle.

10.5 Market Session Open

Category C – Type O

The Market Session Open Control Message signifies the opening of the market for the session indicated in the Message Header.

10.6 Market Session Close

Category C – Type C

The Market Session Close Control Message signals the closing of the market for the session indicated in the Message Header.

10.7 End of Trade Session

Category C – Type X

The End of Trade Session Control Message signals that no further trade reports or corrections (other than retransmissions) will be sent for that market session. transmitted message.

10.8 End of Transmission

Category C – Type Z

The End of Transmissions Control Message signals that there will be no further transmissions of data. The End of Transmissions message will be transmitted at the end of the operational day.

11.0 Format Release and Testing Information

11.1 Release Notification

To keep pace with the changing business environment, FINRA may modify its data feed format specifications for direct data feed customers. In advance of each release, FINRA will notify its direct connect customers of the format change by posting a notice on a FINRA and/or NASDAQ website. In the notice, FINRA will outline the scope of the changes as well as the testing and release schedule. Direct connect customers are required to modify and test their code based on these technical notices.

11.2 Types of Testing

In advance of each release, FINRA will offer test data for its direct data feed customers to be used for quality assurance (QA) purposes. Depending on the scope of the changes, the testing period will range from one day to one month. For its data feed customers, FINRA offers the following types of testing opportunities:

- **Evening test transmissions:** For its evening testing opportunities, FINRA or NASDAQ will create sample messages in the new formats to be broadcast on select weeknights from 21:05 to 22:30. To generate the sample data, test script will be used to exercise the full range of values for the affected message formats. The evening test data for the ATDS feed will be disseminated via a dedicated test port and IP Addresses, which are different from the ATDS production port and IP Addresses.
- **Saturday production tests:** In advance of major releases, FINRA will conduct user acceptance tests on select Saturdays for its market participants. As market participants enter information into its production systems, FINRA will broadcast this test data in the new data formats to direct data feed subscribers only.

FINRA strongly recommends that all direct subscribers use these testing opportunities to check their hardware and software applications. During the testing phase, FINRA may ask market data vendors or market participants to provide status updates and/or submit testing verification forms as part of the QA process.

11.3 Identification of Test Data

During market hours, FINRA will identify test data:

- **Test Symbols:** FINRA may send out intra-day test data using special issue symbols on its data feeds.

During non-market hours, FINRA may broadcast unmarked test data on its ATDS feed. Customers should take necessary precautions to protect their systems against database corruption during weekends and market holidays. Please refer to the Appendix B of this document for the current data feed transmission schedule.

12.0 Appendices

12.1 Appendix A – Glossary of Terms

Term	Definition
After Market Hours trade	A transaction reported into the TRACE system between 17:15 and 18:30 ET. After Market Hours trade reports do <u>not</u> affect the high, low, or closing price for an issue.
Allocations	Represents the number of managed accounts to which the securities are allocated and the aggregate volume of securities allocated, subject to existing transaction size caps.
As/of trade	A transaction that was reported by a FINRA member on a date later than the actual transaction date.
Bond	A long-term promissory note in which the issuer agrees to pay the owner the amount of the face value on a future date and to pay interest at a specified rate at pre-defined intervals.
Call option	The right of an issuer to redeem outstanding bonds before the scheduled maturity date.
Cash sale	A transaction in which the delivery of securities and payment must occur on the same day that the trade was executed.
Commission	Fees paid to a broker for executing a trade based on the number of bonds traded or the dollar amount of the trade.
Convertible bond	A bond that can be exchanged at the option of the holder into preferred or common stock at a pre-set ratio.
CUSIP number	CUSIP stands for the Council on Uniform Securities Identification Procedures. A CUSIP number is a unique nine-character alpha/numeric code appearing on the face of each stock or bond certificate that is assigned to a security by Standard & Poor's Corporation. The number is used to expedite clearance and settlement.
External redistributor	A firm that resells market data to third party customers. Also known as a market data vendor.
Face value	The value that appears on the front, or face, of a bond, which represents the amount the issuer promises to repay at maturity. Also known as principal amount.
Fixed rate bond	A long term bond with an interest rate fixed to maturity.
Floating rate bond	A bond for which the interest rate is adjusted periodically according to a pre-determined formula, usually linked to an index. Please note that FINRA will not calculate a yield for floating rate bonds.
Institutional investor	A bank, mutual fund, pension fund, or other corporate entity that trades securities in large volumes.

FINRA Agency Debt Trade Dissemination Service (ATDS)

Term	Definition
Interest	Compensation paid or to be paid for the use of money, generally expressed as an annual percentage rate. The rate may be constant over the life of the bond (fixed-rate) or may change from time to time by reference to an index (floating-rate).
Internal redistributor	A firm that provides a market data display to its employees only.
Investment grade bond	A bond rated in one of its four highest generic rating categories by a nationally recognized statistical rating organization (NRSRO), i.e., Baa3 or better by Moody's Investors Service or BBB- or better by Standard & Poor's Corporation. Note: FINRA will treat all agency debt securities as investment grade bonds.
Issuer	A corporation that has distributed to the public securities registered with the Securities and Exchange Commission. In the case of agency debt bonds, the issuer represents the agency issuing the debt instrument.
Markup and Markdown	A markdown is a charge subtracted from the price of a security that a customer is selling to a dealer/broker for the broker/dealer's own account. A markup is the charge added to the price of a security that a customer is buying from a dealer/broker from the broker/dealer's own account. The markdown or markup is the equivalent of a commission on the sale.
Material News	News released by a public company that might reasonably be expected to affect the value of a company's securities or influence investors' decisions. Material news includes information regarding corporate event of an unusual or non-recurring nature, news of tender offers, and unusually good or bad earning reports.
Maturity date	The date on which the principal amount of a bond is to be paid in full.
Medium term notes	A debt security issued under a program that allows an issuer to offer notes continuously to investors through an agent. The size and terms of medium-term notes may be customized to meet investors' needs. Maturities can range from one to 30 years.
Next day trade	A transaction in which the delivery of securities and payment must occur on the next business day following the trade execution date.
Over-the-counter market (OTC)	A securities market that is conducted by dealers throughout the country through negotiation of price rather than through the use of an auction system as represented by a stock exchange.
Portfolio Trade	A transaction in which two parties enter into a single trade for a basket of corporate bonds at an agreed aggregate price for the entire basket. Note that a trade identified with a portfolio trade sale condition will <u>not</u> be incorporated in the calculation of the day's high, low and last price for the security.

FINRA Agency Debt Trade Dissemination Service (ATDS)

Term	Definition
Private placement	A large block of securities offered for sale to an institutional investor or a financial institution through private negotiations. Transactions in private placement securities are restricted under SEC Rule 144.
Rating	An alpha and/or numeric symbol used to give indications of the relative credit quality.
Reversal	A trade cancellation entered into TRACE on an As/of basis.
Secondary market	Markets where securities are bought and sold subsequent to original issuance.
Settlement date	The date for the delivery of securities and payment of funds.
Special Price Indicator	This field denotes trades that were consummated contrary to the current standard convention for the particular bond. Also known as "specified trades", e.g., when a debt security that conventionally and in the current market is traded at a price that reflects a due bill or warrant is, in the transaction to be reported, traded as specified without the due bill or warrant. Note that a trade identified with a "Special Price Indicator" will <u>not</u> be incorporated in the calculation of the day's high, low and last price for the security.
TRACE	Under FINRA Rule 6700 Series, FINRA members are required to report OTC secondary market transactions in eligible fixed income securities to FINRA. The Trade Reporting and Compliance Engine (TRACE) is the FINRA-developed vehicle that facilitates the mandatory trade reporting of corporate bonds and public dissemination of market data.
Weighted average price	A transaction where the price is determined by a weighted average of the prices of prior related transactions. Note that a trade identified with a weighted average price sale condition will <u>not</u> be incorporated in the calculation of the day's high, low and last price for the security.
When issued trading	A short of "when, as, and if issued." The term refers to a conditional security: one authorized for issuance but not yet actually issued. All "when issued" transactions are on an "if" basis, to be settled if and when the actual security is issued.
Yield	A calculation of the return on an investor's capital investment.

12.2 Appendix B – ATDS Transmission Schedule

Note: All times referenced regarding the ATDS feed are approximate and are stated in US Eastern Time. This schedule is based on a normal day. FINRA reserves the right to alter this schedule with minimal advance notice.

Time	Transmission	Message Category	Message Type
07:30	Start of Day Control Message	C	I
08:00	US Market Session Open Message	C	O
08:00 - 18:30	Trade Report, Cancel, and Correction Messages	T T T	M N O
17:15	US Market Session Closed Message	C	C
17:20	Trade Summary Recap Messages	A	E
18:30	End of Trade Session Control Message	C	X
18:35	Market Aggregate Messages	A	1 - 5
19:08	End of Day Control Message	C	J
19:14	End of Transmissions Control Message (Time is approximate; delayed when retransmission's still active)	C	Z

12.3 Appendix C – Sale Condition Matrix

FINRA will use the Change Indicator field in the Trade Report, Trade Cancel, and Trade Correction message formats to notify ATDS recipients which price and yield fields to update based on the trade report. The Change Indicator field will be populated based on the following logic:

- **As/Of Indicator:** Current day trades will impact the high, low, and last sale prices and yields. Only update high, low, and/or last sale price and yield fields if the As/Of Indicator field is blank (current day trade).
- **Special Price Indicator:** Only trade prices within the normal trading range for a bond issuance will be used to calculate the price and yield summary for a bond issue. Only update the high, low, and/or last sale price and yield if the Special Price Indicator field is blank.

After factoring out As/of and special price trades, the TRACE system will then filter trades based on the Sale Condition 3 and 4 fields. The following Sale Condition Decision Matrix should be used to determine whether the “High,” “Low,” and “Last,” information is updated upon receipt of an individual trade report.

Modifier	Condition	Update High/Low	Update Last ³
(blank)	(No Sale Condition Applies)	Yes	Yes
Z	Reported Late (Out of Sequence)	Yes	Yes
T	Reported After Market Hours	No	No
U	Reported Late After Market Hours	No	No
W	Weighted Average Price	No	No
P	Portfolio Trade	No	No

³ The ATDS last sale price calculation algorithm includes an execution time factor. FINRA will only update the last sale price if the execution time in the current ATDS message format is equal to or greater than the previous trade report message that was disseminated.

12.4 Appendix D – FINRA Display Guidelines for ATDS Data Elements

FINRA has outlined its display requirements for external real-time distributors of ATDS in Section 8 of this document. This table summarizes the recommended display value and placement for the required fields.

Data Element	Recommended Display Value	Recommended Data Placement
Bond Symbol or CUSIP	As disseminated.	Separate display field.
When/Issued Indicator	"w/i"	Indicator to the right of the bond symbol when applicable.
Price	As disseminated or rounded to 3 decimal places.	Separate display field.
Remuneration	Lower case "c", "m" or "n". Blank otherwise.	Indicator to the right of the price when applicable.
Special Price Indicator	Asterisk (*)	Indicator to the right of the price when applicable.
Yield	As disseminated or rounded to 3 decimal places.	Separate display field.
Quantity	As disseminated.	Separate display field.
Quantity Indicator	"Est" if estimated. Blank otherwise.	Indicator to the right of the Quantity field when applicable.
Sale Condition Modifiers ⁴	As disseminated.	Separate display field. If a trade has more than one modifier, the values may be shown in same display field.
As/Of Indicator ⁵	"RV" for Reversals "A/O" for other As/of transactions	Indicator to the left of the price field when applicable.
Date/Time	Execution time if current day transaction. Execution date if As/Of trade or reversal.	Separate display field.
Cancel/Correction Indicators ⁶	"N/W" for Corrections. "X" for Cancellations.	Indicator to the left of the price field when applicable.
Side	As disseminated.	Separate display field.
Reporting Party Type	As disseminated.	Separate display field.
Contra Party Type	As disseminated.	Separate display field.

⁴ Each ATDS message contains two modifier fields: Sale Condition 3 and Sale Condition 4 fields.

⁵ External redistributors are required to show the reversal indicator. As/Of indicator is optional.

⁶ Indicator should be shown next to the original transaction if a Trade Cancel or Trade Correction was subsequently disseminated on ATDS.

12.5 Appendix E – Connectivity

An active Vendor Agreement is required to receive a TRACE real-time data feed, including the ATDS feed (the Vendor Agreement can be found at <https://www.finra.org/filing-reporting/trace/transparency-services-legal-agreements>)

If you have any questions, please contact TRACE Data Services at (888) 507-3665.

Connection Options:

Connectivity to NASDAQ datacenters is required either through an authorized Extranet Provider or through a Direct Circuit connection.

Option	Contact	Other instructions
Direct Connection to NASDAQ	TRACE Data Services; TRACEDataServices@finra.org	Click on the following link for a list of current local access carriers that can provide Direct Circuit connectivity http://www.nasdaqtrader.com/content/ProductsServices/Trading/Direct_connect_providers.pdf
Connection via a new/additional Extranet provider	<ol style="list-style-type: none"> 1. Contact the network provider to discuss the communication costs/details and 2. Send an email to TRACE Data Services at TRACEDataServices@finra.org requesting access to ATDS via desired network provider. 	Click on the following link for list of current Extranet providers http://www.nasdaqtrader.com/content/ProductsServices/Trading/extranets.pdf

Once approval takes place FINRA will issue an approval letter notifying the indicated network provider.

Please email [FINRA Client and System Management](#) for questions regarding the ATDS message layouts or the TRACE application.

12.6 Appendix F – Document Version Control Information

Version	Modification Date	Description of Change
1.0	9-30-2009	Initial version.
2.0	10-31-2011	Major revisions due to platform migration include the following: Revised Message Header Date/Time format: <ul style="list-style-type: none"> • Section 4.0 • Section 4.7 Revised Message Type Codes: <ul style="list-style-type: none"> • Section 4.2 • Sections 5.1 and 5.2 Revised Message formats: <ul style="list-style-type: none"> • Sections 5.1 and 5.2 Updated Field Occurrences (Section 6.0). Updated Field Descriptions (Section 7.0). Revised Appendices.
2.1	11-21-2011	Section 4.0 – Corrected total byte count of Message Header to 27 (previously stated as 20). Appendix F – Corrected last field of Start of Test Cycle and End of Test Cycle messages to 'Actual Date and Time' (previously labeled as 'Actual Time').
2.2	3-21-2012	Replaced 12-byte "Future Use" field with BSYM (Bloomberg Symbol) to Transaction messages. In production June 25, 2012. <ul style="list-style-type: none"> • Sections 5.1.1, 5.1.2, 5.1.3, 5.2.1, 5.2.2 Added BSYM to Field Occurrences and Field Descriptions <ul style="list-style-type: none"> • Sections 6 and 7 Added BSYM as Bond Identifier <ul style="list-style-type: none"> • Section 8.3
2.3	11-19-2012	Modified contact point explanations for connectivity options. NASDAQ OMX Operations should not be called as first step for direct connection option. Appendix G.
3.0	12-15-2014	Replaced Message Types G, H and I with Types M, N and O respectively. With the new message layouts, the Commission Indicator and Reporting Party Side were eliminated and new fields Side, Reporting Party Type, Contra Party Type and Remuneration Indicator are introduced. Display guidelines revised accordingly. In addition, test cycle messages are no longer being produced.
3.1	1-12-2015	Removed Remuneration Indicator and restored Commission Indicator in its place. Removed value identifying ATS trades from the Reporting Party Type field and removed values identifying ATS and Affiliate trades from the Contra Party Type field.

FINRA Agency Debt Trade Dissemination Service (ATDS)

Version	Modification Date	Description of Change
3.2	3-2-2015	Removed references to April 27 th 2015 as the release date for the new Message Types M, N and O.
3.3	5-18-2015	Expanded Contra Party Type in Section 7 to include new value "A" for affiliate trades and defined affiliates in Section 8.3.11.
3.4	12-9-2015	Retired use of Commission Indicator and replaced with Remuneration on Trade, Cancel and Correction messages. Introduced ATS Indicator (using previous Future Use byte) on Trade, Cancel and Correction messages. Introduced new Market Aggregate messages (Category A, Types 1 through 5). Introduced value "T" to Reporting Party Type and Contra Party Type fields to identify an ATS on Trade, Cancel and Correction messages.
3.5	4-7-2017	Removed all references to Fitch ratings.
3.6	3-28-2018	Times for evening test data amended. Evening test data will be broadcast via its own port and IP Address.
3.6A	5-14-2018	Clarified End of Transmissions (Category C – Type Z) statement in section 10.9 regarding messages produced after the End of Transmissions.
3.7	2-16-2022	Changed to new FINRA logo.
3.8	5-16-2022	Introduced value "P" to Sale Condition 4.
4.0	3-21-2024	MOLD 2.1/UDP 64 version.
<u>4.1</u>	<u>2-4-2026</u>	<u>Added new Allocations field (Category T – Message Type M, N, O)</u>