

FIX Specifications for the Over the Counter Trade Reporting Facility

Version 1.6

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1 Overview

1.1 Introduction

The Over the Counter Trade Reporting Facility (ORF) is a service of FINRA that supports on-line trade reporting of over the counter equity securities. In addition to last sale dissemination of eligible trades, the system also supports trade matching and forwarding to NSCC for clearing. Currently, FINRA members (or their designated third parties) are provided with the capability of submitting trade report information on over the counter equity securities through the use of the Financial Information eXchange Protocol (FIX) linkage.

The Eastern Time operating hours of the ORF system are as follows:

System Open:	8:00 A.M.
Market Open:	9:30 A.M.
Market Close:	4:00 P.M.
System Close:	8:00 P.M. ¹

This document describes the new formats of the message text to be used to interface through the NASDAQ OMX network to the FINRA application. Updates to this document will be chronicled in the Revision History section of this document.

For questions concerning FIX connectivity, please contact NASDAQOMX Technical Support at (212) 231-5180 or via email to: <u>tradingservices@nasdaqomx.com</u>. For questions concerning ORF trade reporting, please contact FINRA Product Management at (866) 899-2107 or via email to: FINRAProductManagement@finra.org.

¹ All entries, including contra party Accepts and Declines, will not be allowed past 8:00pm ET. ORF FIX Specification ver 1.6

2 FIX Protocol

The messaging described in this specification adheres to the standard FIX 4.4 protocol. Please refer to <u>http://fixprotocol.org/specifications/FIX.4.4</u> for further details.

The interface follows the FIX specifications as far as possible. In the majority of cases the structure and semantics of the messages are identical to the standard.

In some cases, the protocol has been extended to cover functions not considered by the standard. These extensions are clearly detailed in the document. In other cases, the standard is ambiguous or indicates that the details should be bilaterally agreed between the parties. In these cases this manual provides a detailed description to avoid any possible ambiguity.

2.1 Supported Messages

2.1.1 Administrative messages

Logon (in/out) Logout (in/out) Sequence Reset (in/out) Resend Request (in/out) Reject (out) Heartbeat (in/out) Test Request (in/out)

2.1.2 Application Messages

Trade Capture Report (in) Trade Capture Report (out) Trade Capture Report Ack (out)

3 The FIX Session

The session layer conforms to the standard FIX session. Please see the standard FIX specification for additional details.

3.1 ComplDs

The Sender- and TargetCompID uniquely define the FIX session. A session can only be active (established) between two hosts simultaneously. Any attempts to establish a second FIX session using the same CompIDs (for instance to a backup gateway) in parallel will be rejected.

- The TargetCompID (56) on all *inbound* transactions must be set to "FNRA".
- The SenderCompID (49) on all outbound transactions will always be set to "FNRA".

The Sender- and TargetCompID used by the client are defined in a separate agreement.

3.2 SubIDs

For inbound transactrions:

- The TargetSubID (57) must be set to "ORF".
- The SenderSubID (50) must be set to the user ID defined in a separate agreement.

For *outbound* transactions:

- The TargetSubID (57) will be set to the user ID (same as inbound SenderSubID).
- The SenderSubID (50) will be set to "ORF".

3.3 Logon and authentication

At Logon, clients are identified by:

- CompIDs (SenderCompID and TargetCompID)
- IP Address

When the client is authenticated, the system responds with a Logon message to the client.

3.4 Heartbeat intervals

Heartbeat intervals are negotiated at Logon using the HeartBtInt (108) field. The system accepts a heartbeat interval set to 30 s

3.5 Encryption

The system does not support encryption.

3.6 Datatypes and required fields

This specification does not change the data type on any fields defined in the standard FIX specification. There may be places where this specification restricts the value range of a field further than specified in standard FIX. This will be clearly marked in the spec.

All fields listed in this specification that are marked as required in the standard specification, are required also in this specification. This document specifies additional fields as required by FINRA. These fields are marked with an 'F' in the required column of the message listings.

3.7 Character encoding

Standard FIX 7-bit US-ASCII character encoding is used.

3.8 FIX Timestamps

In FIX all timestamps are expressed in GMT/UTC. Please refer to the standard FIX specification for additional details.

3.9 Session lifetime

The FIX session lifetime is restricted to one trading day. The session lifetime is not ended at connectivity loss or even Logouts. The sequence numbers are reset to one each morning.

3.10 Failover and message recovery

At reconnect and Logon standard FIX message recovery is performed. All FIX sessions have at least one primary and one secondary gateway to which the session states are fully replicated. This means that regardless to which gateway a client connects, full message recovery is provided.

A client cannot have the same FIX session active towards multiple gateway instances simultaneously.

3.11 FIX Session Level Test Cases

This implementation is fully compliant with the session-level test cases specified in the standard FIX 4.4 Specification, Volume 2, section "FIX Session-level Test Cases and Expected Behaviors". The only exception is the encryption test cases.

3.12 Drop Copy Sessions

Drop Copy Sessions, or Drops, can be set up to mirror outbound traffic on one or more FIX sessions. All outbound Quote Status Reports will be seen on the Drop.

Drop Copy Sessions are separate FIX sessions from the sessions which it replicates. This means the Drop session will have its own CompIDs, so the copied messages will differ slightly from the originals. All copied messages will have the CopyMsgIndicator (797) tag set to "Y".

Note that this is an extension to standard FIX where only Execution Reports and Trade Capture Reports can be copied to a drop.

3.13 The Standard Header

All FIX messages contain a Standard Header. The header contains important information such as session identifiers (CompIDs), sequence numbers and message type and length etc.

Tag	FIX Field name	Req'd	Comment
8	BeginString	Y	
9	BodyLength	Y	
35	MsgType	Y	
49	SenderCompID	Y	As specified in separate agreement
50	SenderSubID	F	Your User ID as defined in separate agreement.
56	TargetCompID	Y	Valid values: "FNRA"
57	TargetSubID	F	Valid values: "ORF"
34	MsgSeqNum	Y	
43	PossDupFlag		Always required for retransmitted messages
97	PossResend		
52	SendingTime	Y	Time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as "GMT"))

3.13.1 Inbound Header

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115	Or Bala MOCOurse ID	If present, this MPID will be passed to the ORF application. If not present, the value in Tag 49 will be passed to the application. This allows you to use multiple MPIDs through a single connection. For Service Bureaus, if you are sending this message on behalf of your customer, their 4-character MPID is placed here. For both Broker Dealers and regular connections, you can use this field to submit your customer's MPID. This value will be returned to you in Tag 128 on the outbound message. Please note that while it is possible for you to submit a chain of transactions with inconsistent values for this tag in different messages, you are strongly advised not to do so.
115	OnBehalfOfCompID	For both Broker Dealer and regular connections, you can
		use this field to submit your customer's III2 (assigned by
		NASDAQ upon agreement). This value will be returned
		to you in Tag 129 on the outbound message. Please note
		that while it is possible for you to submit a chain of
		transactions with inconsistent values for this tag in
116	OnBehalfOfSubID	different messages, you are strongly advised not to do so.
122	OrigSendingTime	

3.13.2 Outbound Header

Tag	FIX Field name	Req'd	Comment
8	BeginString	Y	
9	BodyLength	Y	
35	MsgType	Y	
49	SenderCompID	Y	Set to "FNRA"
50	SenderSubID	F	Set to "ORF"
56	TargetCompID	Y	As specified in separate agreement
57	TargetSubID	F	Your User ID as defined in separate agreement.
34	MsgSeqNum	Y	
43	PossDupFlag		Always required for retransmitted messages
97	PossResend		
52	SendingTime	Y	Time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as "GMT"))
122	OrigSendingTime		
128	DeliverToCompID		Your MPID as stated in Tag 115 in the inbound message is returned to the service bureau in this tag.
129	DeliverToSubID		Your I1I2 as stated in Tag 116 in the inbound message is returned to the service bureau in this tag.

3.14 The Standard Trailer

All FIX messages end with a Standard Trailer. The trailer only includes a simple checksum field. The details on how to calculate the checksum can be found in the standard FIX specification.

Tag	FIX Field name	Req'd	Comment
10	CheckSum	Y	

3.15 Message Details

3.15.1 How to interpret the Required (Req'd) column

A 'Y' marks the field as required in standard FIX (and of course also in this implementation). An 'F' means that the field is required in this implementation although it is not required in standard FIX. No entry at all means the field is optional.

3.15.2 Default values

Fields which has enumerated values, where one is marked as "default value" need not be included in the message at all if the default value is used.

3.15.3 Logon – inbound to FINRA

The response to a logon is either a Logon, which denotes a successful logon, or a Logout.

A client must be prepared to handle failure scenarios including (but not limited to):

A Logon attempt may fail or be rejected for several reasons. The FIX gateway will react differently depending on the kind of failure. The two different actions it may take are: **Silently ignore the Logon.**

- If the wrong Sender or Target CompID is specified.
- For other reasons specified in the standard FIX specifications.

Respond with a Logout.

- If the FIX gateway has no connection with the back-end system.
- Logon failure for other reasons than authentication/security.

The Logout response to a Logon will always contain a note on why in the Text (58) field.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Encryption not supported.
			Valid values:
			0 = None / Other
108	HeartBtInt	Y	Heartbeat interval. Valid value: 30 s
	Standard Trailer	Y	

3.15.4 Logon – outbound from Marketplace

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Encryption not supported. Valid values: 0 = None / Other
108	HeartBtInt	Y	Heartbeat interval. Valid value: 30 s
	Standard Trailer	Y	

3.15.5 Logout (in/out)

The Logout message is used to gracefully disconnect a FIX session. When receiving a Logout, the counterparty should respond with a Logout. A Logout can also be the response to an unsuccessful Logon attempt.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 5

58	Text		Free text
	Standard Trailer	Y	

3.15.6 Sequence Reset (in/out)

This message has two uses. The common usage is with GapFillFlag set to 'Y', which is used in a response to a Resend Request to indicate that a range of messages will not be resent. This is commonly used to avoid resending administrative messages like Heartbeats.

The other (very rare) usage is to reset the sequence numbers to a higher number to get out of a deadlock. This is only triggered by manual intervention.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 4
123	GapFillFlag		Indicates that the Sequence Reset message is replacing administrative or application messages which will not be resent.
36	NewSeqNo	Y	New sequence number. The next Sequence Number to be expected after this message.
	Standard Trailer	Y	

3.15.7 Resend Request (in/out)

Resend Request is used to recover messages when a sequence number gap has been detected.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 2
			Message sequence number of first message in range to be
7	BeginSeqNo	Y	resent
			Message sequence number of last message in range to be
			resent. If request is for a single message BeginSeqNo (7) =
			EndSeqNo. If request is for all messages subsequent to a
16	EndSeqNo	Y	particular message, EndSeqNo = "0" (representing infinity).
	Standard Trailer	Y	

3.15.8 Reject (out)

The Reject, or session-level reject, message is sent whenever the FIX gateway is able to at least partially parse the message, but the message does not adhere to the specification and cannot be delivered to the back-end system.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 3
572	TradeReportRefID	Y	TradeReportID (Tag 571) of rejected message
45	RefSeqNum	Y	MsgSeqNum of rejected message
371	RefTagID		The tag number of the FIX field being referenced.
372	RefMsgType		The MsgType of the FIX message being referenced.

373	SessionRejectReason	F	Valid values: 0 = Invalid Tag Number 1 = Required Tag Missing 2 = Tag Not Defined For This Message Type 3 = Undefined Tag 4 = Tag Specified Without a Value 5= Value Is Incorrect Out Of Range For This Tag 6 = Incorrect Data Format For Value 9 = CompID Problem 10 = Sending Time Accuracy Problem 11 = Invalid Msg Type 99 = Other
58	Text		Where possible, message to explain reason for rejection
	Standard Trailer	Y	

3.15.9 Heartbeat (in/out)

A heartbeat message is sent at the interval set at Logon. It is also the response to a Test Request message.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 0
			Required when the heartbeat is the result of a Test
112	TestReqID		Request message.
	Standard Trailer	Y	

3.15.10 Test Request (in/out)

Test Request is used to "ping" the counterparty whenever a heartbeat has not arrived at the negotiated heartbeat interval.

Tag	FIX Field name	Req'd	Comment
	Standard Header	Y	MsgType = 1
			Identifier included in Test Request message to be returned
112	TestReqID	Y	in resulting Heartbeat
	Standard Trailer	Y	

4 General Trade Reporting in FIX

4.1 Introduction

Trades may, subject to regulations or bilateral agreement, be reported to the marketplace in the following cases:

- Trades negotiated between market participants without using execution mechanisms provided by the Marketplace
- Trades formed at other execution venues but reported to the marketplace for regulatory or publication reasons. Such execution venues may include (systematic) internalizers, ECN's, ATS's, and others regulated markets.

4.2 Trade Capture Report Processing

Trade Capture Reports (TCR) have two related purposes; to confirm trades and reporting of privately negotiated trades. Usage of tags differ slightly depending on the purpose of the message:

The confirmed Trade:Identifier:TradeIDAction:TradeReportType

The process of confirming a trade:

Identifier: **TradeReportID**. Each actor issues their own id for every message sent (excluding TCR Ack messages). To reference a previous message, the **TradeReportRefID** tag is used.

- An initiator always uses TradeReportRefID when referring to a previous report.
- The marketplace uses TradeReportRefID in confirmed trades to reference external actors previous TradeReportIDs.

Action: TradeReportTransType

4.3 As-Of Trades

In FIX, an As-Of Trade is submitted by setting the TradeDate field to the date when the trade occurred and setting the AsOfIndicator (1015) to 1. An original T Date Trade is reported by setting TradeDate to the current date and setting the AsOf Indicator to 0 or omitting the tag.

For As-Of Reporting beyond T+365, Tape Only or No Tape and No Clearing designations may be submitted on trade entry. For As-Of Reporting beyond T+365 where the client publish indicator = 'Y', the trade must be suppressed from dissemination (Publish Indicator must be set to "N"). For As-Of Reporting beyond T+365 the clearing number is required and must be a valid NSCC clearing number on report date and a valid relationship on Trade Date.

As-of trade reports with an execution date that is a non-business date must be submitted as non-clearing and may be published or non-published. Non-business dates are considered to be weekend days and any day the US markets are closed. If the Publish Indicator is "Y" and the trade is executed on a non-business day, the trade must be appended with the "outside normal market hours" modifier in Trade Modifier 3.

If the Publish Indicator is 'Y', and the trade is executed on a non-business day, the trade must be reported by 8:15 a.m. the next business day following execution. Trades not reported by this time must be appended with the "outside normal market hours reported late" modifier in Trade Modifier 3.

4.4 Reversals

The FINRA reporting facility system is designed to retain 4 business days of trade report data, <u>inclusive of the current day (T date through T minus 3)</u>, on a rolling basis. A deletion of a previously reported trade submitted prior to this rolling T-3 day period is allowed via submission of a *Reversal*. This message is used to cancel a trade entry which was originally reported prior to T-3, including trades submitted prior to the migration of the ORF from ACT to the new technological platform. A Reversal must contain all the values submitted in the original Trade, <u>including the Side code (Buy or Sell) that was originally submitted</u>. See section 5.1.3 for message details. To correct a trade entry which was originally reported prior to T-3, a Reversal, followed by an As-Of Trade with the correct trade details, are required.

Reversals are also used to support the cancellation of a trade originally reported to another FINRA reporting facility (e.g., ADF, FINRA/NYSE TRF, FINRA/NASDAQ TRF) in the event the security has moved from one market place to another (e.g., listed to un-listed). The reversal message layout includes a field that indicates which reporting facility the trade was originally reported. This supports proper audit trail processing of historical reports. Note that in these cases, the Original Control Number must be a 10-digit "dummy" number that starts with the digit "5", followed by all zeros (e.g., 500000000).

4.5 Identifiers

4.5.1 Trade Report ID

The TradeReportID (571) is similar to the ClOrdID used for orders and executions. A unique Trade Report ID assigned by the reporting executing broker/dealer must be set on all reported trades (TCR) inbound to the marketplace. There is one important exception to the analogy of ClOrdIDs. The marketplace sets its own TradeReportIDs on outbound TCRs (like confirmed trades).

4.5.2 Trade Report Reference ID

The TradeReportRefID (572) is used to refer to a previous TCR. The marketplace, which sets its own TradeReportIDs on outbound trade confirmations, uses the TradeReportRefID to reference *the submitters TradeReportID* from the original trade report, for example on confirmations to reported trades.

4.5.3 Trade ID (aka FINRA Control Number)

TradeID (1003) is a FINRA extension to FIX 4.4. TradeID carries the ten digit FINRA Control Number assigned to the trade upon acceptance. All Control Numbers shall start with the digit "5" followed by nine digits (numeric) representing the incremental sequence number of the trade. All Control Numbers will be unique within a given day.

4.5.4 Original Trade ID

OrigTradeID (1126) *is a FINRA extension to FIX 4.4.* OrigTradeID carries the ten digit FINRA control number referenced on Corrections and Reversals.

4.5.5 Firm Trade ID

FirmTradeID (1041) contains the internal ID assigned to a trade by the reporting party (Client Trade Identifier). Must not exceed 20 characters. A firm can use their Client Trade Identifier to subsequently Cancel or Correct a trade (in lieu of Trade ID/FINRA Control Number. Control Date would still be required). If used, firms must ensure uniqueness of their reference numbers every day.

4.5.6 Secondary Firm Trade ID

SecondaryFirmTradeID (1042) is a FINRA Extension to FIX 4.4. It contains the internal ID assigned to a trade by the contra side (Contra Client Trade Identifier).

4.5.7 Party Identifiers

There may be many parties involved in a trade. In FIX, the identifiers and roles of each party is defined in

the Parties block. The Parties block is a repeating group of identifiers which can carry an unlimited number of parties and their roles. The Parties block consists of the following fields:

Tag	FIX Field name	Comment			
453	NoPartyIDs	Number of parties included in the message			
		The actual identifier of the party. In this case always the 4			
		character MPID on interdealer trades. On Customer trades,			
448	PartyID	the contra party must be submitted with the value C.			
		Defines the type of the identifier used as PartyID. In this			
		solution always C = Generally accepted market participant			
447	PartyIDSource	identifier (e.g. FINRA mnemonic)			
452	PartyRole	Defines the role of the current party.			

The last three fields listed above are required for each party.

Party Role	Comment
	MPID of the Giveup Firm, when applicable. A Uniform Service
	Bureau/Executing Broker Agreement (Attachment A of the Agreement)
	must be in place in order for firms to submit trade reports on behalf of
Giveup Firm	their give ups.
Executing Firm	MPID of Reporting party (owner of the trade report).
	Clearing Firm ID Number assigned by the NSCC. Not really a party but
	treated as such in FIX. If not submitted on the reporting side, will default
	to the primary clearing number for the reporting party. On Locked-In
Clearing Firm	trades, may be submitted on both the reporting and the contra side, else
Number	will default to the primary clearing firms of both sides.
	MPID of Contra party or "C" to denote the contra is a non-FINRA
	member (Customer trade). An AGU or QSR trade can be submitted as a
	Locked-in trade provided the reporting party has Uniform Service
Contra Firm	Agreement with the contra party.

The following party roles are supported:

In addition to the above three main party identifier fields, there is also a Parties Sub identifier group that may be added to certain parties. This group contains the following fields:

- **NoPartySubIDs** (802) Number of Party sub identifiers. In this solution always set to 1 if present.
- **PartySubID** (523) The actual Party Sub Identifier. In this solution only used for identifying a branch office of a reporting party or a contra party. Maximum of 8 alphanumeric characters allowed.
- **PartySubIDType** (803) Type of sub identifier. In this solution always set to 24 = Department. These fields are optional.

In this solution the Trade Capture Reports contains one set of parties for each Side (Buy/Sell) of the trade. The parties are found in the repeating group called TrdCapRptSideGrp. This group will always contain two sides (NoSides = 2), one buy and one sell². Each of these contains a Parties repeating group.

- The reporting side (buy or sell) *must* contain a PartyID with PartyRole = Executing Firm.
- The contra side (opposite of reporting side) *must* contain a PartyID with PartyRole = Contra Firm.

For Cross trades (Tag 54 Side = 8), the reporting and contra sides must be the same and must both be

² The exception is Trade Cancels, which only contains one side (the reporting side). ORF FIX Specification ver 1.6

submitted, therefore the NoSides must also be set to "2".

The field Reporting Obligation (Tag 22030) is a FINRA required field that allows the submitter of the trade report to identify whether or not they are the party that has the responsibility to report the trade, as defined in FINRA Rule $6622(b)^3$. For the purpose of reporting Step-Outs/ Step-Ins, the firm stepping-out (transferring the position out) must always populate the Reporting Obligation Flag with a 'Y' value, and the firm stepping-in (receiving the shares in) must always populate the field with an 'N' value. The rule for Step-Outs includes Special/Step-Out, Step-Out with Fees and Special/Step-Out with Fees. The rule for Step-Ins includes Special/Step-In.

Cross trades and Customer trades may never be submitted with the Reporting Obligation value of "N", they must always be submitted with the value "Y".

On trades where the firm submitted Publish Indicator = Y, the Reporting Obligation must also = Y.

PartyIDs with other Party Roles may be added as necessary to both sides.

4.5.8 Trades reported by a Service Bureau

In order to report trades as a Service Bureau, you would need to utilize the "On Behalf Of" FIX functionality. In the header of the message, you must include Tags 115 (OnBehalfOfCompID) and 116 (OnBehalfOfSubID). Tags 128 (DeliverToCompID) and 129 (DeliverToSubID) will be returned in the outbound messages to you. You will set up a standard FIX session with your MPID. For additional clients, the port will be turned into a service bureau port and client connections can be added to it. In order for you to send trade reports on behalf of these clients, you must send Tags 115 and 116 with the corresponding values given to you by NASDAQOMX for each client.

Note: A fully executed Uniform Service Bureau/Executing Broker Agreement (Attachment A of the Agreement) must be in place in order for service bureaus to submit trade reports on behalf of their clients.

Here is a sample set up of a service bureau port with multiple clients (MPIDs, I112s and port used for illustrative purposes):

Tag 49SenderCompID:Tag 50SenderSubID:Tag 56TargetCompID:Tag 57TargetSubID:Port: 12345	WXYZ (Service Bureau MPID) 1111 FNRA ORF
Client #1 Tag 115 OnBehalfOfCompID: Tag 116 OnBehalfOfSubID:	ABCD 2222
Client #2 Tag 115 OnBehalfOfCompID: Tag 116 OnBehalfOfSubID:	EFGH 3333

Client #3

³ In transactions between two members, the executing party shall report the transaction. In transactions between a member and a non-member or customer, the member shall report the transaction. The "executing party" shall mean the member that receives an order for handling or execution or is presented an order against its quote, does not subsequently re-route the order, and executes the transaction. In a transaction between two members where both members may satisfy the definition of executing party (e.g., manually negotiated transactions via the telephone), the member representing the sell-side shall report the transaction, unless the parties agree otherwise and the member representing the sell-side contemporaneously documents such agreement.

Tag 115 OnBehalfOfCompID:	IJKL
Tag 116 OnBehalfOfSubID:	4444
-	
Client #4	
Tag 115 OnBehalfOfCompID:	MNOP
Tag 116 OnBehalfOfSubID:	5555

4.5.9 OATS Identifier

Required by FINRA on all trade reports where either the reporting or contra party was also required to submit an OATS Execution Report to FINRA pursuant to FINRA Rule 7450. The OATS Identifier shall be reported in Tag 376 ComplianceID. This field allows up to 20 alphanumeric characters.

4.6 Timestamps and dates

Timestamps and dates can be represented in several was in FIX. The data types used in this solution are:

Data Type	Format	Comment
	YYYYMMDD	The most common data type in FIX. Used in standard FIX tags
	-HH:MM:SS	such as TransactTime (60), SendingTime (52) etc.
		NOTE 1: times are given in UTC (GMT).
UTCTimestamp		NOTE 2: FIX allows milliseconds as well.
	YYYYMMDD	Standard date. Notice that it is NOT in UTC. Used in standard
LocalMktDate		tags such as TradeDate (75).
	HH:MM:SS.sss	Basically the time part of a UTCTimestamp.
UTCTimeOnly		NOTE: times are given in UTC (GMT).

4.6.1 TransactTime

TransactTime (60) is a standard FIX tag that is set to the time the transaction it is contained in occurred. May be the same as ExecutionTime (22007) on initial trade reports. **Format:** UTCTimestamp

4.6.2 SendingTime

SendingTime (52) is contained in the header of every FIX message and must contain the time of message transmission.

Format: UTCTimestamp

4.6.3 TradeDate

TradeDate (75) is used to indicate the date the trade occurred. Non-business days are allowed to be reported as valid Trade Dates. Non-business dates are considered to be weekend days and any day the US markets are closed. Refer to section 4.3 for processing of non-business day trade reports. **Format:** LocalMktDate

4.6.4 ExecutionTime

ExecutionTime (22007) is a field defined by FINRA. It denotes the time of execution. Outbound messages contain the value set in the inbound message.

Format: UTCTimeOnly

4.6.5 PreparationTime

PreparationTime (22009) is an optional field defined by FINRA. Denotes the time the submitter prepared the transaction for submission. Outbound messages contain the value set in the inbound message.

Format: UTCTimeOnly

4.6.6 ControlDate

ControlDate (22011) is a field defined by FINRA. ControlDate shall be generated by FINRA in the format YYYYMMDD and shall reflect the date that the trade was received by FINRA from the participant firm. The ControlDate together with the Control Number (TradeID) uniquely identifies a trade throughout the life of the system. Control Date is required in conjunction with Control Number (TradeID) to subsequently cancel or correct a trade.

Format: LocalMktDate

4.6.7 OrigControlDate

OrigControlDate (22012) is a field defined by FINRA (YYYYMMDD format). The OrigControlDate reflects the date when the system received and processed the *original* trade entry. It is found on trade reversal inbound and outbound messages, and on trade correction outbound messages. **Format:** LocalMktDate

4.6.8 ServiceBureauPrepTime

ServiceBureauPrepTime (22022) is an optional field defined by FINRA. If a participant firm used a Service Bureau to submit the trade, this field denotes the time the Service Bureau prepared the transaction for submission. Outbound messages contain the value set in the inbound message. **Format:** UTCTimeOnly

4.6.9 TradeModifier4Time

TradeModifier4Time (22018) is a conditionally required field defined by FINRA. If a participant firm reports a TradeModifier4 (22004) value of "S" (Stopped Stock) or "P" (Prior Reference Price), this field would be required and must denote the time associated with this condition. Outbound messages contain the value set in the inbound message.

ORF shall validate that the Modifier 4 Time field is populated when the Modifier 4 field is populated with either Prior Reference Price or Stop Stock. If the validation fails, the trade will reject.

On T-Date trades (i.e., non-As Of trades), the Modifier 4 Time field, when present, must be more than 10 seconds prior to <u>both</u> the execution time of the trade and the time the trade is reported to ORF, otherwise the trade will reject. On As-Of trades, this time validation is not required and the trade will be accepted regardless of the Modifier 4 Time in comparison to the Execution Time and report time. **Format:** UTCTimeOnly

4.6.10 MatchControlDate

MatchControlDate (22027) is a field defined by FINRA (YYYYMMDD format). Reflects the date when the system matched the trade on match/compared trades. If the trade was matched against the contra party's trade report (where ReportingObligation = N), then this tag will contain the Control Date of the contra party's trade report (Tag 9857 will be set to "C"). If the contra party accepted the executing reporting party's trade report, then this tag will be omitted. It is found on outbound confirmed match messages (ORMA/OCMA).

Format: LocalMktDate

5 Equity Trade Message Formats

5.1 Inbound Trade Report Messages

Tag	FIX tag name	Rea'd	Comment
	Standard Header	Y	MsgType = AE
			Client-generated identifier (reporting participant firm), not
571	TradeReportID	Y	to exceed 20 characters.
571			The client identifier assigned to a trade by the Firm to
			track a trade within the Firm's system. Must be unique for
1041	FirmTradeID		the day.
1041	FIIIITIAdeiD		FINRA Extension to FIX 4.4:
1042	Secondary/FirmTradalD		The Contra Client Identifier assigned to a trade by the contra side.
1042	SecondaryFirmTradeID		Valid values:
487		F	0 = New
407	TradeReportTransType		Valid values:
856		F	0 = Submit
000	TradeReportType		
			Indicates if the trade capture report was previously reported to the counterparty
			Valid values:
570	PreviouslyReported	Y	N = No
570	FreviouslyReported	I	
			Used to indicate that a trade was executed "as of" a prior date.
			Valid values:
			0 = false – trade is not an AsOf trade (default)
1015	AsOfIndicator		1 = true - trade is not all ASOf trade (default)
55		F	
55	Symbol	Г	Ticker symbol. Max size: 14 characters.
C.F.	Sumbol Sty		Symbol suffix. Additional information about the security
65	SymbolSfx		(e.g., preferred, warrants, etc.) Trade Volume as number of shares.
32	LastOty	Y	
32	LastQty	I	Format: max 8 characters, no decimal.
			Trade Price. Can be entered as a decimal unit price or as a contract amount price (see Tag 423 Price Type).
			Format: nnnnnn.nnnnn (6v6), when Tag 423 = 98.
			Maximum of 6 digits allowed before the decimal.
			Maximum of 6 digits allowed after the decimal.
			Format: nnnnnnnnnnn (10v2), when Tag $423 = 99$.
			Maximum of 10 digits allowed before the decimal.
31	LastPx	Y	Maximum of 2 digits allowed after the decimal.
			98 = Decimal Unit Price
423	PriceType	F	99 = Contract Amount
420			Price inclusive of Explicit Fee. Cannot equal trade price.
			Can be entered as a decimal unit price or as a contract
			amount price (see Tag 423 Price Type).
			Format: nnnnnn.nnnnn (6v6), when Tag 423 = 98.
			Maximum of 6 digits allowed before the decimal.
			Maximum of 6 digits allowed after the decimal.
			Format: nnnnnnnnnnn ($10v2$), when Tag $423 = 99$.
			Maximum of 10 digits allowed before the decimal.
9822	ClearingPrice		Maximum of 2 digits allowed after the decimal.
			Execution Date. Interpreted as an As-Of trade if not
75	TradeDate	Y	current date. Format: YYYYMMDD
			Time the transaction represented by this Trade Capture
			Report occurred (in UTC/GMT).
60	TransactTime	Y	Format: YYYYMMDD-HH:MM:SS.sss

5.1.1	Trade	Capture	Report -	Reporting	a trade ((in)

1	1					
						Optional, used for informational purposes only. Specific
						date of trade settlement (Settlement Date) in
						YYYYMMDD format. Note: if settlement is other than
						regular way, the appropriate settlement modifier must be
64	Settl	Date				entered in Trade Modifier 1 (Tag 22001).
						Specifies whether or not this trade report represents the
						submission from the member with the trade reporting
						obligation, as defined under FINRA Rule 6622(b).
						Valid values:
						Y = Trade reported by the member with the reporting
						obligation.
	_		.		_	N = Trade reported by the member who $does not$ have
22030	Rep	orting	gObli	gation	F	the reporting obligation.
						Set value to 2 (One side for the Reporting party and one
						side for the Contra party).
						On Cross trades, set value to 2 and Reporting party and
552	TrdC	CapR	ptSic	leGrp/NoSides	Y	Contra party must be the same MPID.
						Side of trade.
						Valid values:
						1 = Buy
						2 = Sell
\rightarrow	54	Side			Y	8 = Cross
\rightarrow		Orde			Ŷ	Required in FIX, but ignored
\rightarrow	57	Olue			I	Number of parties on the reporting/contra side of the
	152	Dorti		oPartyIDs	F	trade.
\rightarrow	455	Faili	es/IN	OPartyiDS	Г	
						Identifier for the type of party defined in PartyRole. Either
		440	D		-	an MPID or a Clearing Firm number or "C" for customer
\rightarrow	\rightarrow	448	Party	yid	F	on the contra side.
						Valid values:
						C = Generally accepted market participant identifier (e.g.
\rightarrow	\rightarrow	447	Party	yIDSource	F	FINRA mnemonic)
						Valid values:
						1 = Executing Firm
						14 = Giveup Firm
						17 = Contra Firm
						83 = Clearing Firm Number (if not entered, will default to
\rightarrow	\rightarrow	452	Part	yRole	F	primary clearing firm)
\rightarrow	\rightarrow			artySubIDs		PartySubID is only allowed for PartyRole = 1 or 17.
		002				Sub-identifier. Branch office of executing/contra firm
						(Branch Sequence Number /Contra Branch Sequence
_`	_		522	PartySubID		Number). Up to 8 characters allowed.
\rightarrow	\rightarrow		523			
						Type of PartySubID (523) value
			000			Valid values:
\rightarrow	\rightarrow	\rightarrow	803	PartySubIDType		24 = Department
						Designates the capacity of the reporting/contra party.
						Valid values:
						A = Agency
						P = Principal
						R = Riskless Principal
						Required on the reporting side. Contra side is required on
						all Locked-In trades and allowed on Cross and Customer
\rightarrow	528	Orde	erCap	pacity	F	trades.

\rightarrow	58Text	Free format user Memo field. Not to exceed 10 characters.
\rightarrow	376ComplianceID	OATS Identifier. Not to exceed 20 characters.
		FINRA Extension to FIX 4.4. Valid values: Y = Yes N = No (default value)
9854	OverrideFlag	Price override may only be submitted after the initial trade report is rejected due to price out of range.
		FINRA Extension to FIX 4.4. Indicates that the firm entering the trade is reporting for both sides of the trade. This occurs on an AGU trade when two of its give-ups trade with each other (Two- sided giveup) or the firm trades with one of its own give- ups (One-sided giveup), or on a QSR trade (no giveups or giveup on the contra side only). Valid values: A = AGU Q = QSR
22013	LockedInIndicator	A Uniform Service Agreement (USA) must be in place in order for firms to submit trade reports on behalf of their give ups or contra parties and as Locked-In trades.
		 FINRA Extension to FIX 4.4. This field allows a trade to be marked for special processing (e.g., position transfers). Where indicated, certain values MUST be authorized by FINRA Operations prior to submission of trades. Valid values: N = No Special Processing (default) Y = Position Transfer (AUTHORIZATION REQUIRED)
22005	SpecialProcessingFlag	O = Clearing-Only, Non-Regulatory Report FINRA Extension to FIX 4.4. Settlement modifiers. Valid values are: 0 = regular (T+32, default)
00004	Tuesda Marshill and	C = Cash (same day) N = Next Day
22001	TradeModifier1	R = Seller's Option Days to settlement: 02, 04.03 – 60 = Seller's Option
855	SecondaryTrdType	Can only be submitted when Tag 22001 TradeModifier1 = R.
		FINRA Extension to FIX 4.4. Time modifiers. Submitted by the participant firm. Valid values are:
		 T = Executed outside normal market hours Z = Executed during normal market hours and reported late U = Executed outside normal market hours and reported
22003	TradeModifier3	late FINRA Extension to FIX 4.4.
22004	TradeModifier4	SRO detail sale condition. Required indicator if a trade

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			falls under one of the following transaction types (otherwise the field must not be set):
			W = Weighted Average Price
			S = Stopped Stock
			P = Prior Reference Price
			X = Trade related to option exercises
			R = Trade price unrelated to the current market
			R = Trade price difference to the current market
			Note: values S and P may only be submitted if the
			associated SS or PRP time is more than 10 seconds
			prior to both the execution time and the time the trade is
			reported to ORF.
			Time associated with Prior Reference Price or Stopped
			Stock trade, (in UTC/GMT). Format: HH:MM:SS.sss
			May only be submitted when Tag 22004 TradeModifier4
			= S (Stopped Stock) or P (Prior Reference Price) and the
			Modifier 4 Time field is more than 10 seconds prior to the
22018	TradeModifier4Time		execution time of the trade, as described in section 4.6.9.
	ExecutionTime	F	Execution time (in UTC/GMT). Format: HH:MM:SS.sss
			Time of trade submission (in UTC/GMT) by the
22009	PreparationTime		participant firm. Optional. Format: HH:MM:SS.sss
			Time Service Bureau prepared the trade for submission
22022	ServiceBureauPrepTime		(in UTC/GMT). Format: HH:MM:SS.sss
			0 = regular (default)
			2 = Step In trade
			3 = Step Out trade
			7 = Special trade
			8 = Special and Step Out trade
			9 = Special and Step In trade
			A = Step Out trade with Fees (for Section 3)
81	ProcessCode		B = Special and Step Out trade with Fees (for Section 3)
			Trade Reference Number used to discretely tie a Media
			eligible trade to one or more non-Media eligible trades.
			E.g., same ref number used on a Media trade and on a
			Riskless Principal trade. May only be submitted on
			reporting/executing party trades.
527	SecondaryExecID		Up to 20 characters.
			0 = send to clearing
			97 = don't send to clearing
			Note: On AGU trades (Tag 22013 = A),
577	ClearingInstruction	F	ClearingInstruction MUST be set to '0' (send to clearing).
			Indicates if the trade should be published to the tape
			(disseminated). Required. Valid values are:
			Y = Report to the tape
852	PublishTrdIndicator	F	N = Do not report to the tape
			S = Sold Short
22024	ShortSaleIndicator	ļ	E = Sold Short Exempt
			O = unknown mkt ctr
			U = unspecified mult mkt trades
			0 = ORF
9277	RelatedMarketCenter		F = Foreign Market

Standard Trailer Y	f
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5.1.2 Trade Capture Report - Trade Cancel / Break (in)

To be used to cancel trades submitted T-Date through T-3. Cancels may also be used to Break a matched/locked-in trade (matched by trade comparison or matched by acceptance). Trades that were matched by comparison may be broken by both reporting parties using the TradeReportType value "6" (Tag 856=6) as outlined below. On matched trades where the reported trade was Accepted by the alleged contra party, the contra party must use the TradeReportType value "7" (Tag 856=7) as outlined below to indicate they are breaking their acceptance of the trade. ORF will automatically send a reversal to DTCC if the trade was originally submitted with instructions to send to clearing. Unless otherwise noted, all fields follow rules/definitions as outlined in the Comments column of the Trade Capture Report inbound message.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
571	TradeReportID	Y	Unique client-generated identifier. Must be different from the TradeReportID submitted on the original trade report.
1041	FirmTradeID		Client Trade Identifier may be used to Cancel a trade in lieu of FINRA Control Number (TradeID). May not be submitted by the contra party on a Break.
1003	TradeID		FINRA Control Number used to identify the trade being cancelled. Used in lieu of FirmTradeID to reference the trade being cancelled.
22011	ControlDate	F	Control Date of the original trade.
487	TradeReportTransType	F	Valid values: 1 = Cancel
			6 = Trade Report Cancel This code must be used only by the reporting party of a trade. If the trade was matched for clearing, this entry will cancel the trade's Status and act as a Break for clearing purposes.
856	TradeReportType	F	7 = Locked In Trade Break This code must be used only by the contra party of an Accepted trade. This entry will allow the contra party to indicate a Break of the reported trade for clearing purposes. The trade will not be cancelled until the reporting party submits a Cancel entry. The Contra Party MUST reference the ControlDate and TradeID of the trade that was accepted.
570	PreviouslyReported	Y	Indicates if the trade capture report was previously reported to the counterparty. Required in FIX, but ignored in cancels. Valid values: N = No
			Must reflect value submitted on original trade
1015	AsOfIndicator		report. Valid values:

		ĺ	0 = false – trade is not an AsOf trade (default)
			1 = true – trade is an AsOf trade.
55	Symbol	F	Ticker symbol submitted on original trade report.
65	SymbolSfx		Symbol suffix submitted on original trade report.
32	LastQty	Y	Required in FIX, but ignored in cancels. Can be set to zero.
			Required in FIX, but ignored in cancels. Can be set
31	LastPx	Y	to zero.
75	TradeDate	Y	Required in FIX but ignored.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report was cancelled (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapRptSideGrp/NoSides	Y	For Trade Cancels this is always set to 1.
\rightarrow	54Side	Y	Side of trade. Valid values: 1 = Buy 2 = Sell 8 = Cross (cannot be used on Break entries)
\rightarrow	37OrderID	Y	Required in FIX, but ignored
\rightarrow	453Parties/NoPartyIDs	F	Number of parties. Always set to "1".
	→ 448PartyID	F	Identifier (MPID) for the reporting party of the original trade to be cancelled. On breaks of accepted trades, the contra party must enter their MPID.
\rightarrow	→ 447PartyIDSource	F	Valid values : C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
	→ 452PartyRole	F	Valid values: 1 = Executing Firm 17 = Contra Firm (this value only to be used by the contra party on breaks of accepted trades.
→ 			contra party on breaks of accepted trades.
	Standard Trailer	Y	

5.1.3 Trade Capture Report – Reversal (in)

To be used to cancel trades submitted prior to the T-3 day period. May also be used to correct a trade submitted prior to T-3 (submitted in conjunction with a separate As-Of trade report). Unless otherwise noted, all fields follow rules/definitions as outlined in the Comments column of the Trade Capture Report inbound message.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
571	TradeReportID	Y	Unique client-generated identifier. Must be different from the TradeReportID submitted on the original trade report.
1041	FirmTradeID		Client Trade Identifier of the original trade.
1042	SecondaryFirmTradeID		As submitted on original trade report, if applicable.
22012	OrigControlDate	F	Control Date of the original trade.
1126	OrigTradeID	F	FINRA Control Number of the original trade.
			Used if a participant transitions from one FINRA Reporting Facility to another and the participant needs to reverse a trade on the new reporting facility that was originally entered on the old reporting facility. Valid values: A = ADF Q = FINRA/NASDAQ TRF
22029	ReferenceReportingFacility		N = FINRA/NYSE TRF
			Valid values:
487	TradeReportTransType	F	4 = Reverse
856	TradeReportType	F	Valid values: 0 = Submit
570	PreviouslyReported		Indicates if the trade capture report was previously reported to the counterparty. Required in FIX, but ignored in Reversals. Valid values: N = No
			Valid values:
1015	AsOfIndicator	F	1 = true – trade is an AsOf trade
55	Symbol	F	Ticker symbol submitted on original trade report.
65	SymbolSfx		Symbol suffix submitted on original trade report.
32	LastQty	Y	Trade Volume submitted on original trade report.
31	LastPx	Y	Trade Price submitted on original trade report.
423	PriceType	F	As submitted on original trade report. 98 = Decimal Unit Price 99 = Contract Amount
9822	ClearingPrice		As submitted on the original trade report.
75	TradeDate	Y	Execution Date reported on the original trade report.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
64	SettIDate		Settlement Date submitted on original trade report.
22030	ReportingObligation	F	As submitted on original trade report.

	ĺ					Valid values:
						Y = Trade reported by the member with the
						reporting obligation.
						N = Trade reported by the member who does not have the reporting obligation.
						Set value to 2 (One side for the Reporting party
						and one side for the Contra party).
						On Cross trades, set value to 2 and the Reporting
552	TrdC	apR	ptSid	leGrp/NoSides	Y	party and Contra party must be the same MPID.
						Side of trade submitted on original trade report.
						Valid values:
						1 = Buy 2 = Sell
\rightarrow	54	Side			Y	8 = Cross
\rightarrow		Orde			Ŷ	Required in FIX, but ignored
· ·		2.00				Number of parties on the reporting/contra side of
\rightarrow	453	Parti	es/N	oPartyIDs	F	the trade as submitted on the original trade report.
				•		Identifier for the type of party defined in PartyRole.
						Either an MPID or a Clearing Firm number or "C"
\rightarrow	\rightarrow	448	Party	/ID	F	for customer on the contra side.
						Valid values :
		447	Part	/IDSource	F	C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
		447	i any	JIDSource		Valid values:
						1 = Executing Firm
						14 = Giveup Firm
						17 = Contra Firm
\rightarrow	\rightarrow			/Role	F	83 = Clearing Firm Number
\rightarrow	\rightarrow	802		artySubIDs		PartySubID is only allowed for PartyRole = 1 or 17.
\rightarrow	\rightarrow	\rightarrow	523	PartySubID		As submitted on original trade report.
						Type of PartySubID (523) value
\rightarrow	\rightarrow		803	PartySubIDType		Valid values: 24 = Department
			003			The capacity of the reporting/contra party as
						submitted on original trade report. Valid values:
						A = Agency
			_			P = Principal
\rightarrow			•	pacity	F	R = Riskless Principal
\rightarrow	58	Text				As submitted on original trade report.
	270					OATS Identifier as submitted on original trade report. Not to exceed 20 characters.
\rightarrow	1 3/h	C ~		CelD		TEDOLE NOT TO EXCEED ZU COAFACTERS
		Com				-
	Ove	rridel	-lag			As submitted on original trade report.
22013	Ove Lock	ridel edIn	-lag Indic	ator		As submitted on original trade report. As submitted on original trade report.
22013 22005	Over Lock Spec	ridel edIn cialP	-lag Indic roces	ator ssingFlag		As submitted on original trade report. As submitted on original trade report. As submitted on original trade report.
22013	Over Lock Spec	ridel edIn cialP	-lag Indic	ator ssingFlag		As submitted on original trade report. As submitted on original trade report. As submitted on original trade report. As submitted on original trade report.
22013 22005	Over Lock Spec	ridel edIn cialP	-lag Indic roces	ator ssingFlag		As submitted on original trade report. As submitted on original trade report. As submitted on original trade report.
22013 22005	Over Lock Spec	ridel edIn cialP	-lag Indic roces	ator ssingFlag		As submitted on original trade report. As submitted on original trade report.
22013 22005	Over Lock Spec Trad	rridel edIn cialPi eMo	-lag Indic roces difier	ator ssingFlag 1		As submitted on original trade report. As submitted on original trade report. As submitted on original trade report. As submitted on original trade report.
22013 22005 22001 855	Over Lock Spec Trad	rridel edin cialPi eMo	Flag Indic roces difier	ator ssingFlag 1 Type		As submitted on original trade report. As submitted on original trade report. Can only be submitted when Tag 22001

22018	TradeModifier4Time		As submitted on original trade report.
22007	ExecutionTime	F	Execution time (in UTC/GMT) submitted on original trade report. Format: HH:MM:SS.sss
22009	PreparationTime		Time of trade reversal submission (in UTC/GMT) by the participant firm to the Exchange. Format: HH:MM:SS.sss
22022	ServiceBureauPrepTime		Time Service Bureau prepared the reversal for submission (in UTC/GMT). Format: HH:MM:SS.sss
81	ProcessCode		As submitted on original trade report.
527	SecondaryExecID		As submitted on original trade report.
577	ClearingInstruction		Indicates if the Reversal should be forwarded for clearing. 0 = send to clearing 97 = don't send to clearing
852	PublishTrdIndicator	F	As submitted on original trade report.
22024	ShortSaleIndicator		As submitted on original trade report.
9277	RelatedMarketCenter		As submitted on the original trade report.
	Standard Trailer	Y	

5.1.4 Trade Capture Report - Trade Correction (in)

To be used to correct trades submitted T-Date through T-3. Please note that only unmatched trades, and trades submitted as Locked-In (AGU or QSR) can be corrected. Matched trades (by trade comparison or by acceptance, or auto-locked by ORF on T+1 2:30pm ET), must be Canceled (Broken) first, followed with a new trade submission, in order to correct them during the 4-day period. ORF will automatically send a reversal and new clearing instructions to DTCC if the trade was originally submitted with instructions to send to clearing. If the correction only involves editing of a non-clearing relevant field (e.g., ComplianceID, SecondaryExecID, etc), ORF will NOT send a reversal/new clearing instructions to DTCC.

Unless otherwise noted, all fields follow rules/definitions as outlined in the Comments column of the Trade Capture Report inbound message.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
571	TradeReportID	Y	Client-generated identifier (reporting participant firm), not to exceed 20 characters. Must be different from the TradeReportID submitted on the original trade report.
1041	FirmTradeID		Client Trade Identifier may be used to Correct a trade in lieu of FINRA Control Number (TradeID). If a new client identifier is desired for the corrected trade, then the FINRA Control Number MUST be submitted as well. The FINRA Control Number will be used to reference the original trade and the new record will contain the new Client Trade Identifier.
572	TradeReportRefID		TradeReportID of report to amend.
1042	SecondaryFirmTradeID		The Contra Client Identifier assigned to a trade by the contra side.
22011	ControlDate	F	Control Date of the trade being corrected.
1003	TradelD		FINRA Control Number used to identify the trade being corrected. Used in lieu of FirmTradeID to reference the trade being corrected.
487	TradeReportTransType	F	Valid values: 2 = Replace
856	TradeReportType	F	Valid values: 5 = Correction
570	PreviouslyReported	Y	Indicates if the trade capture report was previously reported to the counterparty. Required in FIX, but ignored in Corrections. Valid values: N = No
1015	AsOfIndicator	F	Valid values: 0 = false – trade is not an AsOf trade 1 = true – trade is an AsOf trade Note: Trades submitted during the T-1 through T- 3 period must be submitted with AsOfIndicator set to "1" on the correction, regardless if the original trade was submitted as a non AsOf trade.
55	Symbol	F	Ticker symbol submitted on original trade report. Please note Symbol cannot be amended on a Correction.

1	1			1	Symbol suffix submitted on original trade report.
					Please note Symbol Suffix cannot be amended
65	Symbol	Sfx			on a Correction.
					Trade Volume (original amount reported or
32	LastQty	,		Y	amended amount).
					Trade Price (original price reported or amended
31	LastPx			Y	price).
					Original or amended price type.
					98 = Decimal Unit Price
423	PriceTy	ре		F	99 = Contract Amount
9822	Clearing	gPrice	e		Original value or amended value.
					Execution Date (original date reported or
75	TradeD	ate		Y	amended date).
					Time the transaction represented by this Trade
					Correction Report occurred (in UTC/GMT).
60	Transad	ctTim	e	Y	Format: YYYYMMDD-HH:MM:SS.sss
					Settlement Date (original date reported or
64	SettIDat	te			amended date).
					Original or amended Reporting Obligation.
					Y = Trade reported by the member with the
					reporting obligation.
00000	Danasti		l'anation.		N = Trade reported by the member who does not
22030	Reporti	ngOb	ligation	F	have the reporting obligation.
					Set value to 2 (One side for the Reporting party
					and one side for the Contra party).
					On Cross trades, set value to 2 and the Reporting party and the Contra party must be the same
552	TrdCan	PntS	ideGrp/NoSides	Y	MPID.
552	Писар	The second secon			Side of trade (original side reported or amended
					side).
					Valid values:
					1 = Buy
					2 = Sell
\rightarrow	54	Side		Y	8 = Cross
\rightarrow		Orde		Y	Required in FIX, but ignored
		1			Number of parties on the reporting/contra side of
\rightarrow	453	Parti	es/NoPartyIDs	F	the trade
					Identifier for the type of party defined in PartyRole.
					Either an MPID or a Clearing Firm number or "C"
					for customer on the contra side. PartyID may be
\rightarrow	\rightarrow	448	PartyID	F	amended.
					Valid values :
					C = Generally accepted market participant
\rightarrow	\rightarrow	447	PartyIDSource	F	identifier (e.g. FINRA mnemonic)
					Valid values:
					1 = Executing Firm
					14 = Giveup Firm
					17 = Contra Firm
\rightarrow	\rightarrow	452	PartyRole	F	83 = Clearing Firm Number
					PartySubID is only allowed for PartyRole = 1 or
\rightarrow	\rightarrow	802	NoPartySubIDs		17.
					Sub-identifier. Branch office of executing/contra
\rightarrow	\rightarrow	\rightarrow	523PartySubID		firm (Branch Sequence Number/Contra Branch

						Sequence Number). May be amended.
<u> </u>						Type of PartySubID (523) value
						Valid values:
\rightarrow	\rightarrow	\rightarrow	803	PartySubIDType		24 = Department
						Original or amended capacity of the
						reporting/contra party. Valid values:
						A = Agency
						P = Principal R = Riskless Principal
						Required on the reporting side. Contra side is
						required on all Locked-In trades and allowed on
\rightarrow	528	Orde	rCap	acity	F	Cross and Customer trades.
\rightarrow	58	Text				Memo field may be amended. Not to exceed 10 characters.
						OATS Identifier (original or amended). Not to
\rightarrow		Com		celD		exceed 20 characters.
	Override					Original value or amended value.
22013	Lockedl	nIndi	cator			Original value or amended value.
22005	Special	Proce	essing	gFlag		Original value.
22001	TradeM	odifie	er1			Original value or amended value.
						Original value or amended value.
055	0	т	JT	-		Can only be submitted when Tag 22001
855						TradeModifier1 = R.
	TradeM					Original value or amended value.
	TradeM					Original value or amended value.
22018	TradeM	odifie	er41ir	ne		Original value or amended value.
						Execution time (in UTC/GMT). May only be amended to an earlier time than what was
						originally submitted.
22007	Executio	onTin	ne		F	Format: HH:MM:SS.sss
						Time of trade correction submission (in
						UTC/GMT) by the participant firm to the
22009	Prepara	tionT	ime			Exchange. Format: HH:MM:SS.sss
						Time Service Bureau prepared the correction for
22022	Service	Ruroa	au Pr⁄	nTime		submission (in UTC/GMT). Format: HH:MM:SS.sss
81	Process					
01	FIDCESS	COUE	5			Original value or amended value. Original value or amended value.
527	Second	arvE×	ecID)		Up to 20 characters.
		,_,				As submitted by the participant firm on the
						correction.
					-	Y = Report to the tape
852	Publish				F	N = Do not report to the tape
	ShortSa					Original value or amended value.
9277	Related			nter		Original value or amended value.
	Standar	d Tra	iler		Y	

5.1.5 Trade Capture Report – Trade Accept (in)

Can be used by the contra party (the member who does not have the reporting obligation) alleged on a trade report to confirm and accept trade details, in lieu of submission of their version of the trade. Unless otherwise noted, all fields follow rules/definitions as outlined in the Comments column of the Trade Capture Report inbound message.

Tag	FIX tag name			Req'd	Comment
	Standard Header		Y	MsgType = AE	
				Client-generated identifier (accepting participant firm), not	
571	TradeReportID		Y	to exceed 20 characters.	
				Client Trade Identifier of the accepting firm, not to exceed	
1042	Seco	ondar	yFirmTradeID		20 characters.
				_	Control Date of the trade being matched against the
22011	Cont	rolDa	ate	F	Accept (the executing/reporting side).
1000	T	- 10			FINRA Control Number of the trade being matched
1003	Trad	eiD			against the Accept (the executing/reporting side). Valid values:
487	Trad	۵R۵r	portTransType	F	0 = New
407	mau	enep	ontrialistype		Valid values:
856	Trad	eRer	portType	F	2 = Accept
000					Indicates if the trade capture report was previously
					reported to the counterparty
					Valid values:
570	Prev	iousl	yReported	Y	N = No
55	Sym	bol		F	Ticker symbol from the matched trade.
65	Sym	bolSt	x		Symbol suffix from the matched trade.
					Trade Volume as number of shares from the matched
32	Last	Qty		Y	trade.
31	LastPx			Y	Trade Price from the matched trade.
					Execution Date from the matched trade. Interpreted as
75	TradeDate			Y	an As-Of trade if not current date. Format: YYYYMMDD
					Time the transaction represented by this Trade Capture
60	Tron				Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
552	TransactTime			Y Y	
552	TrdCapRptSideGrp/NoSides		Ť	Set value to 1 (One side for the Accepting party). Side of trade from the Accepting party's perspective .	
					Valid values:
					1 = Buy
\rightarrow	54	Side		Y	2 = Sell
\rightarrow	37OrderID		Y	Required in FIX, but ignored	
\rightarrow	453Parties/NoPartyIDs		F	Number of parties on the contra side of the trade.	
,					Identifier for the type of party defined in PartyRole. Either
\rightarrow	\rightarrow	448	PartyID	F	an MPID or a Clearing Firm number.
					Valid values:
					C = Generally accepted market participant identifier (e.g.
\rightarrow	\rightarrow	447	PartyIDSource	F	FINRA mnemonic)
					Valid values:
					17 = Contra Firm
\rightarrow	\rightarrow		PartyRole	F	83 = Clearing Firm Number
\rightarrow	\rightarrow	802	NoPartySubIDs		PartySubID is only allowed for PartyRole = 1 or 17.
\rightarrow	\rightarrow	\rightarrow	523 PartySubID		Sub-identifier. Branch office of contra firm (Branch

						Sequence Number). Up to 8 characters allowed.
						Type of PartySubID (523) value
						Valid values:
\rightarrow	\rightarrow	\rightarrow	803	PartySubIDType		24 = Department
						Designates the capacity of the accepting party. Valid
						values:
						A = Agency
						P = Principal
\rightarrow	528	28OrderCapacity			F	R = Riskless Principal
\rightarrow	376	376ComplianceID				OATS Identifier. Not to exceed 20 characters.
						S = Sold Short
						E = Sold Short Exempt
						Note: The Short Sale Indicator may only be used when the Accepting party's side is a Sell (54=2). If the Accepting party's side is a Buy and the Short Sale Indicator is used,
22024	Sho	rtSale	elndio	cator		the submission will be rejected.
	Stan	dard	Trail	er	Y	

5.1.6 Trade Capture Report – Trade Decline (DK) (in)

To be used by either side alleged on a trade report to decline the trade report. Either party to a trade will use this message to decline (DK) a trade that is alleged against them. ORF will forward an ORDK (Decline confirmation) message to both parties of the trade to advise them that the specified trade has been declined by the contra party. Trades that have been declined are carried over to the next business day and remain available for cancellation or correction by the reporting party, or for Accepting by the contra party until 2:30 p.m. ET of T+1. Declined trades that are carried over are not eligible for the automatic lock-in at 2:30 p.m. ET and will not be sent to clearing unless the parties take action. Reporting firms <u>must</u> Cancel a declined trade that was previously reported for dissemination purposes to have the trade removed from the tape.

Unless otherwise noted, all fields follow rules/definitions as outlined in the Comments column of the Trade Capture Report inbound message.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
571	TradeReportID	Y	Client-generated identifier, not to exceed 20 characters.
22011	ControlDate	F	Control Date of the trade being declined.
1003	TradeID	F	FINRA Control Number of the trade being declined.
			Valid values:
487	TradeReportTransType	F	0 = New
			Valid values:
856	TradeReportType	F	3 = Decline
			Indicates if the trade capture report was previously
			reported to the counterparty Valid values:
570	PreviouslyReported	Y	N = No
55	Symbol	F	Ticker symbol from the declined trade.
65	SymbolSfx	· ·	Symbol suffix from the declined trade.
00			Trade Volume as number of shares from the declined
32	LastQty	Y	trade.
31	LastPx	Y	Trade Price from the declined trade.
75	TableDate	V	Execution Date from the declined trade. Interpreted as an
75	TradeDate	Y	As-Of trade if not current date. Format: YYYYMMDD
			Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT).
60	TransactTime	Y	Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapRptSideGrp/NoSides	Y	Always set value to 1.
002		-	Side submitted on the alleged trade.
			Valid values:
			1 = Buy
\rightarrow	54Side	Y	2 = Sell
\rightarrow	37OrderID	Y	Required in FIX, but ignored
			Reason for decline of trade.
			Valid values:
			A = Unknown symbol
			B = Wrong side
			C = Quantity exceeds order
			D = No matching order E = Price exceeds limit
			F = Calculation difference
127	DKReason	F	Z = Other

	-		Memo field. May be used to further define the reason for the DK, when Tag 127 = Z, e.g., "DUPE TRADE". Not to
58	Text		exceed 10 characters.
	Standard Trailer	Y	

5.2 Outbound Trade Report Acknowledgements

All inbound messages accepted by the system will produce an acknowledgement confirming the details submitted to FINRA. Reporting party and contra party will receive the proper acknowledgement. These acknowledgments are identified by the first two characters "ORxx" in Tag 1011. If elected, correspondent clearing firm copies of these acknowledgments will also be forwarded to the specified clearing firms of each party. The clearing copies are identified by the first two characters "OCxx" in Tag 1011 and are identical to the OR versions.

5.2.1 Trade Capture Report – Acknowledgement: OREN / OCEN (out)

Unless otherwise specified, the fields returned on the acknowledgement will echo back the values submitted on the Trade Capture Report.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgement. Value "OREN" identifies a Trade Capture Report accepted by FINRA.
1011	MessageEventSource	F	Value "OCEN" identifies the version forwarded to the specified clearing firm of the submitting firm.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeReportRefID	F	TradeReportID from inbound TCR.
1041	FirmTradeID		FirmTradeID from inbound TCR.
1042	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound TCR.
22011	ControlDate	F	ControlDate assigned by FINRA on accepted trade report. Format: YYYYMMDD.
1003	TradelD	F	Control Number assigned by FINRA on accepted trade report. 10 digits, starting with the value "5".
487	TradeReportTransType	F	Valid values: 0 = New
856	TradeReportType	F	Valid values: 0 = Submit
570	PreviouslyReported	Y	Will always be set to: N = No
	AsOfIndicator		AsOfIndicator from inbound TCR.
	Symbol	F	Symbol from inbound TCR.
	SymbolSfx	_	SymbolSfx from inbound TCR.
	LastQty	Y	LastQty from inbound TCR.
	LastPx	Y	LastPx from inbound TCR.
423	PriceType	F	PriceType from inbound TCR.
9822	ClearingPrice		ClearingPrice from inbound TCR.
75	TradeDate	Y	TradeDate from inbound TCR.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT). Format: YYYYMMDD- HH:MM:SS.sss
64	SettIDate		SettlDate from inbound TCR.
22030	ReportingObligation	F	ReportingObligation from inbound TCR.
552	TrdCapRptSideGrp/NoSides	Y	TrdCapRptSideGrp/NoSides from inbound TCR.
\rightarrow	54Side	Y	Side from inbound TCR.

\rightarrow	37	Orde	rID	Y	Required in FIX, set to NONE.
\rightarrow	453 Parties/NoPartyIDs		F	Parties/NoPartyIDs from inbound TCR.	
\rightarrow	\rightarrow 448 PartyID		F	PartyID from inbound TCR.	
,	,	0		1	Will always be set to:
					C = Generally accepted market participant identifier (e.g.
\rightarrow	\rightarrow	447	PartyIDSource	F	FINRA mnemonic)
\rightarrow	\rightarrow	452	PartyRole	F	PartyRoles from inbound TCR.
\rightarrow	\rightarrow	802	NoPartySubIDs		NoPartySubIDs from inbound TCR.
\rightarrow	\rightarrow	\rightarrow	523PartySubID		PartySubID from inbound TCR.
\rightarrow	\rightarrow	\rightarrow	803PartySubIDType		PartySubIDType from inbound TCR.
\rightarrow	528	Orde	rCapacity	F	OrderCapacity from inbound TCR.
\rightarrow	58	Text			Text from inbound TCR. User memo will not be provided to contra party on Allege confirmation (ORAL).
\rightarrow	376	Com	plianceID		ComplianceID from inbound TCR.
9854	Over	rideF	lag		OverrideFlag from inbound TCR.
22013	Lock	edIn	Indicator		LockedInIndicator from inbound TCR.
22005	Spec	ialPr	ocessingFlag		SpecialProcessingFlag from inbound TCR.
22001	Trade	eMo	difier1		TradeModifier1 from inbound TCR.
855	Seco	ndar	yTrdType		SecondaryTrdType from inbound TCR.
22003	Trade	eMo	difier3		TradeModifier3 from inbound TCR.
22020	FINR	ΔΤι	adeModifier3		Single character Time Modifier determined by FINRA based on comparing Execution Time (22007) against the time FINRA receives the inbound TCR. Valid values: T = Executed outside normal market hours Z = Executed during normal market hours and reported late U = Executed outside normal market hours and reported late
22020					TradeModifier4 from inbound TCR.
			difier4Time		TradeModifier4Time from inbound TCR.
22010				F	ExecutionTime from inbound TCR.
22007				•	PreparationTime from inbound TCR.
			ureauPrepTime		ServiceBureauPrepTime from inbound TCR.
81	Proce				ProcessCode from inbound TCR.
527			yExecID		SecondaryExecID from inbound TCR.
577			nstruction	F	ClearingInstruction from inbound TCR.
852		-	dIndicator	F	PublishTrdIndicator from inbound TCR.
			Indicator		ShortSaleIndicator from inbound TCR.
			arketCenter		RelatedMarketCenter from inbound TCR.
					Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes
797			Indicator		N = No (default value)
	Stand	dard	Trailer	Y	

5.2.2 Trade Capture Report – Allege: ORAL / OCAL (out)

Confirmation sent to the contra party alleged on the reported trade. Unless otherwise specified, the fields returned on this allege confirmation will echo back the values submitted on the Trade Capture Report (TCR) by the reporting party.

Tag	FIX tag name	Req'd	Comment
	Standard Header		MsgType = AE
			Used to identify the type of acknowledgement. Value "ORAL" identifies a Trade Capture Report accepted by FINRA alleging the recipient of this message as the contra party on the trade.
1011	MessageEventSource	F	Value "OCAL" identifies the version forwarded to the specified clearing firm of the alleged firm.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
1042	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound TCR.
22011	ControlDate	F	ControlDate assigned by FINRA on accepted trade report. Format: YYYYMMDD.
1003	TradeID	F	Control Number assigned by FINRA on accepted trade report. 10 digits, starting with the value "5".
487	TradeReportTransType	F	Valid values: 0 = New
856	TradeReportType	F	Valid values: 1 = Allege
570	PreviouslyReported	Y	Will always be set to: N = No
1015	AsOfIndicator		AsOfIndicator from inbound TCR.
55	Symbol	F	Symbol from inbound TCR.
65	SymbolSfx		SymbolSfx from inbound TCR.
32	LastQty	Y	LastQty from inbound TCR.
31	LastPx	Y	LastPx from inbound TCR.
423	PriceType	F	PriceType from inbound TCR.
9822	ClearingPrice		ClearingPrice from inbound TCR.
75	TradeDate	Y	TradeDate from inbound TCR.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT). Format: YYYYMMDD- HH:MM:SS.sss
64	SettIDate		SettIDate from inbound TCR.
22030	ReportingObligation	F	ReportingObligation from inbound TCR.
552	TrdCapRptSideGrp/NoSides	Y	TrdCapRptSideGrp/NoSides from inbound TCR.
\rightarrow	54Side	Y	Side from inbound TCR.
\rightarrow	37OrderID	Y	Required in FIX, set to NONE.
\rightarrow	453Parties/NoPartyIDs	F	Parties/NoPartyIDs from inbound TCR.
\rightarrow	→ 448PartyID	F	PartyID from inbound TCR.
\rightarrow	→ 447PartyIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
\rightarrow	\rightarrow 452 PartyRole	F	PartyRoles from inbound TCR.

\rightarrow	\rightarrow	802	NoPartySubIDs		NoPartySubIDs from inbound TCR.
\rightarrow	\rightarrow	\rightarrow	523PartySubID		PartySubID from inbound TCR.
\rightarrow	\rightarrow	\rightarrow	803PartySubIDType		PartySubIDType from inbound TCR.
\rightarrow	528	Orde	rCapacity	F	OrderCapacity from inbound TCR.
\rightarrow	376	Com	plianceID		ComplianceID from inbound TCR.
9854	Over	rideF	Flag		OverrideFlag from inbound TCR.
22013	Lock	edIn	Indicator		LockedInIndicator from inbound TCR.
22005	Spec	cialPr	rocessingFlag		SpecialProcessingFlag from inbound TCR.
22001	Trad	eMo	difier1		TradeModifier1 from inbound TCR.
855	Seco	ondar	·yTrdType		SecondaryTrdType from inbound TCR.
22003	Trad	eMo	difier3		TradeModifier3 from inbound TCR.
22020) A T =-	adeModifier3		Single character Time Modifier determined by FINRA based on comparing Execution Time (22007) against the time FINRA receives the inbound TCR. Valid values: T = Executed outside normal market hours Z = Executed during normal market hours and reported late U = Executed outside normal market hours and reported
22020					late TradeModifier4 from inbound TCR.
			difier4Time		TradeModifier4Time from inbound TCR.
22018				F	ExecutionTime from inbound TCR.
			onTime	Г	PreparationTime from inbound TCR.
			ureauPrepTime		ServiceBureauPrepTime from inbound TCR.
81	Proc				ProcessCode from inbound TCR.
527			ryExecID		SecondaryExecID from inbound TCR.
577			nstruction	F	ClearingInstruction from inbound TCR.
852		-	dIndicator	F	PublishTrdIndicator from inbound TCR.
9277			larketCenter		RelatedMarketCenter from inbound TCR.
					Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes
797	Copv	/Msa	Indicator		N = No (default value)

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgment. Value "ORCX" identifies a Trade cancel accepted by FINRA, sent to both parties of the trade.
			Value "ORBX" identifies a Trade break accepted by FINRA, sent to both parties of the trade.
1011	MessageEventSource	F	Value "OCCX" or "OCBX" identifies the versions forwarded to the specified clearing firms of both parties of the trade.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeReportRefID	F	To the reporting party, this field is set to the reporter's previous TradeReportID. To the contra party, this field is set to the TradeReportID from the previous allege message (ORAL).
1041	FirmTradeID		Client Trade Identifier from inbound Trade Cancel.
22011	ControlDate	F	ControlDate from inbound Trade Cancel.
1003	TradeID	F	TradeID from inbound Trade Cancel. (FINRA Control Number).
487	TradeReportTransType	F	Valid values: 1 = Cancel
856	TradeReportType	F	Valid values: 6 = Cancel (on ORCX/OCCX) 7 = Break (on ORBX/OCBX)
570	PreviouslyReported	Y	Will always be set to: N = No
32	LastQty	Y	LastQty from inbound Trade Cancel. NOTE: on a Cancel of a trade report submitted on a prior day (up to T-3), the value "0" will always be returned.
31	LastPx	Y	LastPx from inbound Trade Cancel. NOTE: on a Cancel of a trade report submitted on a prior day (up to T-3), the value "0" will always be returned.
		v	TradeDate from inbound Trade Cancel. NOTE: on a Cancel of a trade report submitted on a prior day (up to T-3), the current date will
75	TradeDate	Y	always be returned. Time the transaction represented by this Trade Capture Report was cancelled (in UTC/GMT).
60	TransactTime	Y	Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapRptSideGrp/NoSides	Y	For Trade Cancels this is always set to 1.

5.2.3 Trade Capture Report – Confirmed Cancel: ORCX / OCCX ; ORBX/OCBX (out)

			Side of trade. Valid values:
			1 = Buy
			2 = Sell
			8 = Cross (not used on ORBX/OCBX)
			NOTE: on a Cancel of a trade report submitted
			on a prior day (up to T-3), the value "1" will
			always be returned regardless of the value
			submitted in Tag 54 on the inbound Trade
\rightarrow	54Side	Y	Cancel request.
\rightarrow	37OrderID	Y	Required in FIX, set to NONE.
			Will only be included on Cancels (Breaks) of
			match/locked trades. Contains the current status of
			the matched/locked trade. Valid values:
			A = Trade still locked-in (by trade acceptance) because both parties' Cancel requests have
			not been received.
			M = Trade still locked-in (by trade matching)
			because both parties' Cancel requests have
			not been received.
			B = The locked-in trade is effectively broken
			because both parties' Cancel requests have
9847	LockedInStatus		been received.
			Will only be included on Cancels (Breaks) of
			match/locked trades. Indicates initiator on the first
			Break confirm, or if both parties have submitted Breaks (on the second confirm). Valid values:
			B = only buyer has broken
			S = only seller has broken
			X = both buyer and seller have broken
			L = broken through market center (used only in the
9856	BreakIndicator		event FINRA breaks the trade).
			If the trade was matched against the contra party's
			trade report, then this tag will contain the Control
			Date of the contra party's trade report.
			If the contra party accepted the executing reporting
			party's trade report, then this tag will be omitted.
			This tag will be omitted on non-matched trade
22027	MatchControlDate		reports.
			If the trade was matched against the contra party's
			trade report, then this tag will contain the Control
			Number of the contra party's trade report.
			If the contra party accepted the executing reporting
			party's trade report, then this tag will be omitted.
			This tag will be omitted on non-matched trade
22028	MatchTradeID		reports.
			Indicates whether or not this message is a drop
			copy of another message.
			Valid values:
707	ConvMagIndiantor		Y = Yes
797	CopyMsgIndicator		N = No (default value)
	Standard Trailer	Y	

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5.2.4 Trade Capture Report – Confirmed Reversal: ORHX / OCHX (out)

Unless otherwise specified, the fields returned on the acknowledgement will echo back the values submitted on the Trade Reversal.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgment. Value "ORHX" identifies a Reversal accepted by FINRA, sent to both parties of the trade.
1011	MessageEventSource	F	Value "OCHX" identifies the version forwarded to the specified clearing firms of both parties of the trade.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeReportRefID	F	TradeReportID from inbound Trade Reversal.
1041	FirmTradeID		FirmTradeID from inbound Trade Reversal.
	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound Trade Reversal.
22012	OrigControlDate	F	OrigControlDate from inbound Trade Reversal.
1126	OrigTradeID	F	OrigTradeId from inbound Trade Reversal.
22011	ControlDate	F	ControlDate generated by FINRA on the accepted Trade Reversal.
			Tradeld generated by FINRA on the accepted
1003	TradeID	F	Trade Reversal.
00000	Defense as Dementing Teacility		ReferenceReportingFacility from inbound Trade
22029	ReferenceReportingFacility		Reversal. Valid values:
487	TradeReportTransType	F	4 = Reverse
107			Valid values:
856	TradeReportType	F	0 = Submit
			Will always be set to:
570	PreviouslyReported	Y	N = No
1015	A o Oflandiante r	-	Must be set to 1 on Reversals.
	AsOfIndicator Symbol	F F	1 = true
55 65	SymbolSfx	Г	Symbol from inbound Trade Reversal SymbolSfx from inbound Trade Reversal
32	LastQty	Y	LastQty from inbound Trade Reversal.
32		Y	· · · · · · · · · · · · · · · · · · ·
	LastPx PriceType		LastPx from inbound Trade Reversal
423	PriceType Clearing Price	r.	PriceType from inbound Trade Reversal.
9822	ClearingPrice	Y	ClearingPrice from inbound Trade Reversal.
75 60	TradeDate TransactTime	Y Y	TradeDate from inbound Trade Reversal Time the transaction represented by this Reversal occurred (in UTC/GMT). Format: YYYYMMDD- HH:MM:SS.sss
64	SettlDate		SettlDate from inbound Trade Reversal
	ReportingObligation	F	ReportingObligation from inbound Trade Reversal.
552	TrdCapRptSideGrp/NoSides	Y	TrdCapRptSideGrp/NoSides from inbound Trade

					Reversal.
\rightarrow	54	Side		Y	Side from inbound Trade Reversal
\rightarrow	37OrderID		Y	Required in FIX, set to NONE.	
\rightarrow	453	Parti	es/NoPartyIDs	F	Parties/NoPartyIDs from inbound Trade Reversal
\rightarrow	\rightarrow	448	PartyID	F	PartyID from inbound Trade Reversal.
					Will always be set to:
				_	C = Generally accepted market participant
\rightarrow	\rightarrow		PartyIDSource	F	identifier (e.g. FINRA mnemonic)
\rightarrow	\rightarrow		PartyRole	F	PartyRoles from inbound Trade Reversal.
\rightarrow	\rightarrow		NoPartySubIDs		NoPartySubIDs from inbound Trade Reversal.
\rightarrow	\rightarrow	\rightarrow	523PartySubID		PartySubID from inbound Trade Reversal.
\rightarrow	\rightarrow	\rightarrow	803PartySubIDType		PartySubIDType from inbound Trade Reversal
\rightarrow	528	Orde	rCapacity	F	OrderCapacity from inbound Trade Reversal
\rightarrow	58	Text			Text from inbound Trade Reversal. Will not be provided to contra party.
\rightarrow	376	Com	plianceID		ComplianceID from inbound Trade Reversal.
9854	Over	rideF	lag		OverrideFlag from inbound Trade Reversal
22013	Lock	edIn	Indicator		LockedInIndicator from inbound Trade Reversal
22005	Sner	rialPr	ocessingFlag		SpecialProcessingFlag from inbound Trade Reversal
					TradeModifier1 from inbound Trade Reversal
	TradeModifier1 SecondaryTrdType			SecondaryTrdType from inbound Trade Reversal.	
	TradeModifier3			TradeModifier3 from inbound Trade Reversal	
	TradeModifier4			TradeModifier4 from inbound Trade Reversal	
			difier4Time		TradeModifier4Time from inbound Trade Reversal
			Time	F	ExecutionTime from inbound Trade Reversal
			onTime		PreparationTime from inbound Trade Reversal
22009	гтер	alali	JITTIIIE		ServiceBureauPrepTime from inbound Trade
22022	Serv	iceBı	ureauPrepTime		Reversal.
81		essC			ProcessCode from inbound Trade Reversal
527			yExecID		SecondaryExecID from inbound Trade Reversal.
577			nstruction	F	ClearingInstruction from inbound Trade Reversal
852			dIndicator	F	PublishIndicator from inbound Trade Reversal
			eIndicator		ShortSaleIndicator from inbound Trade Reversal
					RelatedMarketCenter from inbound Trade
9277	Rela	tedM	arketCenter		Reversal
					Indicates whether or not this message is a drop
					copy of another message. Valid values:
					Y = Yes
797	Copy	/Msg	Indicator		N = No (default value)
			Trailer	Y	

5.2.5 Trade Capture Report – Confirmed Correction: ORCR / OCCR (out)

Unless otherwise specified, the fields returned on the acknowledgement will echo back the values submitted on the Trade Correction.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgment. Value "ORCR" identifies a Correction accepted by FINRA, sent to both parties of the trade.
1011	MessageEventSource	F	Value "OCCR" identifies the version forwarded to the specified clearing firms of both parties of the trade.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeReportRefID	F	To the reporting party, this field is set to the reporter's previous TradeReportID. To the contra party, this field is set to the TradeReportID from the previous allege message (ORAL).
1041	FirmTradeID		FirmTradeID from inbound Trade Correction.
1042	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound Trade Correction.
22011	ControlDate	F	New ControlDate assigned to the accepted Trade Correction.
1003	TradeID	F	New TradeID assigned to the accepted Trade Correction.
22012	OrigControlDate	F	ControlDate (tag 22011) from inbound Trade Correction.
1126	OrigTradeID	F	Tradeld (tag 1003) from inbound Trade Correction.
487	TradeReportTransType	F	Valid values: 2 = Replace
856	TradeReportType	F	Valid values: 5 = Correction
570	PreviouslyReported	Y	Will always be set to: N = No
1015	AsOfIndicator		AsOfIndicator from inbound Trade Correction.
55	Symbol	F	Symbol from inbound Trade Correction.
65	SymbolSfx		SymbolSfx from inbound Trade Correction.
32	LastQty	Y	LastQty from inbound Trade Correction.
31	LastPx	Y	LastPx from inbound Trade Correction.
423	PriceType	F	PriceType from inbound Trade Correction.
9822	ClearingPrice		ClearingPrice from inbound Trade Correction.
75	TradeDate	Y	TradeDate from inbound Trade Correction.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
64	SettlDate		SettlDate from inbound Trade Correction.
22030	ReportingObligation	F	ReportingObligation from inbound Trade Correction. TrdCapRptSideGrp/NoSides from inbound Trade
552	TrdCapRptSideGrp/NoSides	Y	Correction.

\rightarrow	54	Side		Y	Side from inbound Trade Correction.
\rightarrow	37OrderID			Ŷ	Required in FIX, set to NONE.
\rightarrow	453 Parties/NoPartyIDs			F	Parties/NoPartyIDs from inbound Trade Correction.
\rightarrow	\rightarrow		PartyID	F	PartyID from inbound Trade Correction.
			PartyIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
\rightarrow	\rightarrow		PartyRole	F	PartyRoles from inbound Trade Correction.
\rightarrow	\rightarrow		NoPartySubIDs		NoPartySubIDs from inbound Trade Correction.
\rightarrow	\rightarrow	\rightarrow	523PartySubID		PartySubID from inbound Trade Correction.
\rightarrow	\rightarrow	\rightarrow	803PartySubIDType		LastQty from inbound Trade Correction.
\rightarrow	528	Orde	rCapacity	F	OrderCapacity from inbound Trade Correction.
\rightarrow	58	Text			Text from inbound Trade Correction. Will not be provided to contra party.
\rightarrow	376	Com	plianceID		ComplianceID from inbound Trade Correction.
9854	Override	eFlag			OverrideFlag from inbound Trade Correction.
22013	Lockedl	nIndi	cator		LockedInIndicator from inbound Trade Correction.
22005	Special	Proce	essingFlag		SpecialProcessingFlag from inbound Trade Correction.
22001	TradeModifier1				TradeModifier1 from inbound Trade Correction.
855	SecondaryTrdType				SecondaryTrdType from inbound Trade Correction.
22003	TradeM	odifie	er3		TradeModifier3 from inbound Trade Correction.
22020	FINRAT	rade	Modifier3		Single character Time Modifier determined by FINRA based on comparing Execution Time (22007) against time FINRA receives the correction. Valid values: T = Executed outside normal market hours Z = Executed during normal market hours and reported late U = Executed outside normal market hours and reported late
22004	TradeM	odifie	er4		TradeModifier4 from inbound Trade Correction.
22018	TradeM	odifie	er4Time		TradeModifier4Time from inbound Trade Correction.
22007	Executio	onTin	ne	F	ExecutionTime from inbound Trade Correction.
22009	Prepara	tionT	ïme		PreparationTime from inbound Trade Correction.
22022	Servicel	Burea	auPrepTime		ServiceBureauPrepTime from inbound Trade Correction.
81	Process	Code	9		ProcessCode from inbound Trade Correction.
527	Seconda	aryE>	kecID		SecondaryExecID from inbound Trade Correction.
577	Clearing	,		F	ClearingInstruction as determined by the ORF system.
852	Publish	TrdIn	dicator	F	PublishTrdIndicator from inbound Trade Correction.
22024	ShortSa	leInd	icator		ShortSaleIndicator from inbound Trade Correction.
9277	Related	Mark	etCenter		RelatedMarketCenter from inbound Trade Correction.
797	CopyMs	gIndi	icator		Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes

		N = No (default value)
Standard Trailer	Y	

5.2.6 Trade Capture Report – Confirmed Accept: ORAC / OCAC (out)

Unless otherwise specified, the fields returned on the acknowledgement will echo back the values submitted on the Trade Accept.

Tag	FIX tag name			Req'd	Comment
	Standard Header			Y	MsgType = AE
					Used to identify the type of acknowledgment. Value "ORAC" identifies a Trade Accept confirmation sent to both parties of the trade.
1011	Messag	eEve	ntSource	F	Value "OCAC" identifies the version forwarded to the specified clearing firms of both parties of the trade.
571	TradeRe	eport	ID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeRe	eport	RefID		TradeReportID from inbound Trade Accept.
1042	Seconda	aryFi	rmTradeID		SecondaryFirmTradeID from inbound Trade Accept.
22011	Control			F	ControlDate from inbound Trade Accept.
1003	TradeID)		F	TradeID from inbound Trade Accept.
487	TradeRe	eport	TransType	F	Valid values: 0 = New
856	TradeRe	eport	Туре	F	Valid values: 2 = Accept
					Will always be set to:
570	Previou	slyRe	eported	Y	N = No
55	Symbol	21		F	Symbol from inbound Trade Accept.
65	Symbol	STX		V	SymbolSfx from inbound Trade Accept.
32	LastQty			Y	LastQty from inbound Trade Accept.
31	LastPx	- 1		Y	LastPx from inbound Trade Accept.
75	TradeDate			Y	TradeDate from inbound Trade Accept. Time the transaction represented by this Trade
60	TransactTime			Y	Capture Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapRptSideGrp/NoSides			Y	TrdCapRptSideGrp/NoSides from inbound Trade Accept. Will reflect the value "1".
\rightarrow	54	Side		Y	Side from inbound Trade Accept.
\rightarrow	37	Orde	rID	Y	Required in FIX, set to NONE.
\rightarrow	453	Parti	es/NoPartyIDs	F	Parties/NoPartyIDs from inbound Trade Accept.
\rightarrow	\rightarrow	448	PartyID	F	PartyID from inbound Trade Accept.
\rightarrow	\rightarrow	447	PartyIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
\rightarrow	\rightarrow		PartyRole	F	PartyRoles from inbound Trade Accept.
\rightarrow	\rightarrow		NoPartySubIDs		NoPartySubIDs from inbound Trade Accept.
\rightarrow	\rightarrow	\rightarrow	523PartySubID		PartySubID from inbound Trade Accept.
\rightarrow	\rightarrow	\rightarrow	803PartySubIDType		LastQty from inbound Trade Accept.
\rightarrow	528	Orde	rCapacity	F	OrderCapacity from inbound Trade Accept.
\rightarrow			plianceID		ComplianceID from inbound Trade Accept.

aleIndicator		ShortSaleIndicator from inbound Trade Accept.
saladicator		Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes N = No (default value)
0	Y	
	aleIndicator sgIndicator rd Trailer	sgIndicator

5.2.7 Trade Capture Report – Confirmed Decline (DK): ORDK / OCDK (out)

Unless otherwise specified, the fields returned on the acknowledgement will echo back the values submitted on the Trade Decline.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgment. Value "ORDK" identifies a Trade Decline confirmation sent to both parties of the trade.
1011	MessageEventSource	F	Value "OCDK" identifies the version forwarded to the specified clearing firms of both parties of the trade.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
572	TradeReportRefID		TradeReportID from inbound Trade Decline.
22011	ControlDate	F	ControlDate from inbound Trade Decline.
1003	TradeID	F	TradeID from inbound Trade Decline.
487	TradeReportTransType	F	Valid values: 0 = New
856	TradeReportType	F	Valid values: 3 = Decline
570	PreviouslyReported	Y	Will always be set to: N = No
55	Symbol	F	Symbol from inbound Trade Decline.
65	SymbolSfx		SymbolSfx from inbound Trade Decline.
32	LastQty	Y	LastQty from inbound Trade Decline.
31	LastPx	Y	LastPx from inbound Trade Decline.
75	TradeDate	Y	TradeDate from inbound Trade Decline.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss TrdCapRptSideGrp/NoSides from inbound Trade
552	TrdCapRptSideGrp/NoSides	Y	Decline. Will reflect the value "1".
\rightarrow	54Side	Y	Side from inbound Trade Decline.
\rightarrow	37OrderID	Y	Required in FIX, set to NONE.
127	DKReason	F	DKReason from inbound Trade Decline.
58	Text		Text from inbound Trade Decline.
			Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes
797	CopyMsgIndicator		N = No (default value)
	Standard Trailer	Y	

5.2.8 Trade Capture Report - Confirmed Match: ORMA / OCMA (out)

Match/locked-in trades (by trade report comparison or by trade acceptance) will generate a Match confirmation. Trades submitted as AGU or QSR trades (LockedInIndicator = A or Q) will not generate a Match confirmation.

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Used to identify the type of acknowledgment. Value "ORMA" identifies a Match processed by FINRA sent to both parties of the trade.
1011	MessageEventSource	F	Value "OCMA" identifies the version forwarded to the specified clearing firms of both parties of the trade.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
22011	ControlDate	F	ControlDate of the trade submitted by the executing reporting party (i.e., the firm with the Reporting Obligation).
1003	TradelD	F	TradeID (Control Number) of the trade submitted by the executing reporting party (i.e., the firm with the Reporting Obligation).
			If the trade was matched against the contra party's trade report (where ReportingObligation = N), then this tag will contain the Control Date of the contra party's trade report (Tag 9857 will be set to "C").
22027	MatchControlDate		If the contra party accepted the executing reporting party's trade report, then this tag will be omitted (Tag 9857 will be set to "M").
			If the trade was matched against the contra party's trade report (where ReportingObligation = N), then this tag will contain the Control Number of the contra party's trade report (Tag 9857 will be set to "C").
22028	MatchTradeID		If the contra party accepted the executing reporting party's trade report, then this tag will be omitted (Tag 9857 will be set to "M").
			Valid values:
487	TradeReportTransType	F	3 = Release
856	TradeBapartTuna	F	Valid values: 2 = Accept
000	TradeReportType	Г	Z = Accept Valid values:
573	MatchStatus	F	0 = Matched
			Will always be set to:
570	PreviouslyReported	Y	N = No
55	Symbol	F	Symbol from matched trade reports.
65	SymbolSfx		SymbolSfx from matched trade reports.
32	LastQty	Y	LastQty from matched trade reports.
31	LastPx	Y	LastPx from matched trade reports.
75	TradeDate	Y	TradeDate from matched trade reports.
60	TransactTime	Y	Time the transaction represented by this Trade

				Capture Report occurred (in UTC/GMT). Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCap	RptSideGrp/NoSides	Y	Will always reflect the value "2" for both sides to the trade (executing party and contra party).
				Side of trade for each party. Valid values: 1 = Buy
\rightarrow	54	Side	Y	2 = Sell
\rightarrow	37	OrderID	Y	Required in FIX, set to NONE.
\rightarrow	453	Parties/NoPartyIDs	F	Will always reflect the value "1" for each side of the trade.
\rightarrow	\rightarrow	448PartyID	F	Identifier (MPID) for the party defined in PartyRole.
\rightarrow	\rightarrow	447PartyIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
→	\rightarrow	452PartyRole	F	PartyRoles from matched trade reports. Valid values: 1 = Executing Firm (firm with Reporting Obligation) 17 = Contra Firm
9857	Locked	InMethod	F	Indicates the method of locking in the trade. Valid values: M = Trade locked in by trade acceptance. C = Trade locked in by trade matching. L = Trade auto-locked T+1 2:30pm ET.
797	СоруМа	sgIndicator		Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes N = No (default value)
		d Trailer	Y	

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AR
571	TradeReportID	Y	Identifier assigned by FINRA.
572	TradeReportRefID	Y	TradeReportID of the rejected message.
572	Падекеропкено	T	Valid values:
			0 = New
			1 = Cancel
			2 = Replace
487	TradeReportTransType	F	4 = Reverse
			Type of Trade Report. Shows the type of
			the incoming trade report.
			Valid values:
			0 = Submit
			2 = Accept
			3 = Decline
			5 = Trade Correction
			6 = Trade Report Cancel or Contra Party
856	TradeReportType	F	Break
			This field signals whether the TCR was
			accepted or rejected.
			Valid values:
150	ExecType	Y	8 = Rejected
		_	Valid values:
939	TradeRptStatus	F	1 = Rejected
55	Symbol	F	Ticker symbol submitted.
65	SymbolSfx		Symbol suffix, if submitted.
			Reason code Trade Capture Report was
751	TradeReportRejectReason	Y	rejected by FINRA. See section 6.3.
			Contains the actual error message
			describing the
	- ·		TradeReportRejectReason.
58	Text	Y	See section 6.3.
			This field contains the one to eight
			alphabetic Code and Sequence
			character Branch Office Code Sequence
22015	BranchOfficeCodeSequenceNumber		Number of the input message, if one was submitted.
22015	BranchOfficeCodeSequenceNumber	V	พลง รับมากและน.
	Standard Trailer	Y	

5.2.9 Trade Capture Report Ack – Reject (out)

6 Custom values and user defined fields

This chapter details how this solution deviates from standard FIX 4.4. While great care has been taken to conform to the standard, a number of deviations are unavoidable to support all mechanisms provided by the host. Wherever later versions of FIX (up to version 5.0 SP2) provide the missing functionality, we have chosen to use that.

The deviations come in two forms, added fields and added values to existing fields. In addition, a list of the reject codes and associated reasons returned in the Trade Capture Report ACK – Reject (section 5.2.9) has been added and will be maintained going forward if more reject codes/reasons are instituted.

6.1 Fields added

A number of fields had to be added to standard FIX 4.4 to cover all the requirements in this solution. Wherever possible, fields from later versions of FIX (5.0 SP2) has been used. Custom fields have been added in two ranges:

- In the 22XXX-range custom fields with no representation in standard FIX has been added.
- Certain fields need to appear twice; once with the original values, and once with the new values. Since the same FIX tag can't appear twice in the same message outside a repeating group, copies of the original FIX tags had to be added. They have the same data type as the "real" FIX tags, the names are prefixed with "Orig", and in some cases, the tag number prefixed with 20.

		FIX	
Tag	FIX tag name	5.0	Comment
1003	TradeID	Yes	
1015	AsOfIndicator	Yes	
1042	SecondaryFirmTradeID	Yes	
9854	OverrideFlag	No	
1126	OrigTradeID	Yes	
22001	TradeModifier1	No	
22003	TradeModifier3	No	
22004	TradeModifier4	No	
22005	SpecialProcessingFlag	No	
22007	ExecutionTime	No	
22009	PreparationTime	No	
22011	ControlDate	No	
22012	OrigControlDate	No	
22013	LockedInIndicator	No	
22015	BranchOfficeCodeSequenceNumber	No	
22018	TradeModifier4Time	No	
22020	FINRATradeModifier3	No	
22022	ServiceBureauPrepTime	No	
22024	ShortSaleIndicator	No	
22027	MatchControlDate	No	
22028	MatchTradeID	No	
22029	ReferenceReportingFacility	No	
22030	ReportingObligation	No	

The following fields have been added to FIX 4.4:

6.2 Enumerations added

Enum	Enum description	Tag	Comment
83	Clearing Firm Number	452	PartyRole
9	Special and Step In trade	81	Additional values to support Step In reporting as
А	Step Out trade with Fees		well as reporting Step Outs with Section 3 fees.
В	Special and Step Out trade with		
	Fees		

6.3 Reject Reason Table

This table contains the Reject Reason Code (Tag 751) and associated Reject Reason (Tag 58) returned on rejected entries. This list will be subject to updates as necessary.

Tag 751	Tag 58
2	SYMBOL IS MISSING
3	SYMBOLSFX IS MISSING
4	SECURITY NOT FOUND
5	INVALID CONTROL DATE
6	INVALID CONTROL ID
7	INVALID FORMAT
8	UNKNOWN FUNCTION
9	TYPE IS MISSING
10	INVALID TYPE
17	INVALID RPID
18	INVALID DATE
19	INVALID PRICE
20	INVALID PRICE OVERRIDE
22	INVALID STATUS
23	INVALID SIDE
24	NOT WITHIN ALLOWABLE TIME
25	PRICE OUT OF RANGE
26	PRICE OUT OF OVERRIDE RANGE
27	TERMINAL NOT AUTHORIZED
29	INVALID TIME
31	RPID REQUIRED
32	INVALID PREP TIME
33	INVALID SVC BUREAU PREP TIME
36	INVALID PRICE TYPE
37	INVALID REVERSAL DATE
38	INVALID CLEARING PRICE
39	INVALID REVERSAL ID
40	DUPLICATE CONTROL DATE/ID
42	INVALID FUNCTION CODE
43	INVALID ORIGINAL CONTROL DATE
44	INVALID EXECUTION DATE
45	ONLY SAME-DAY CORRECTION PERMITTED
46	ONLY SAME-DAY CANCEL PERMITTED

40	DRICE DECLUDED
48	PRICE REQUIRED
50 55	INVALID PUBLISH INDICATOR INVALID SLD TIME
55 59	INVALID SLD TIME INVALID PUBLISH INDICATOR FOR PROCESS CODE
59 62	INVALID PUBLISH INDICATOR FOR PROCESS CODE INVALID SYMBOL
63	INVALID SYMBOL SUFFIX
67 68	INVALID CLEARING NUMBER SECURITY NOT FOUND
70	NO RECORDS FOUND
70	RPID MISMATCH
71 72	TRADE NOT FOUND
72	TRADE NOT MATCH ELIGIBLE
73	INVALID DK REASON
74	DK NOT ALLOWED AFTER AUTO LOCK TIME
76	AFFIRM NOT ALLOWED AFTER AUTO LOCK TIME
70	INVALID MATCH CONTROL DATE
78	INVALID WATCH CONTROL DATE
78	CONTRA TRADE NOT FOUND
80	INVALID MATCH CONTROL ID
81	INVALID MATCH CONTROL ID INVALID AS-OF
82	RPID NOT AUTHORIZED
83	CPID NOT AUTHORIZED
85	INVALID RPID GIVE-UP
86	INVALID CP GIVE-UP
87	INVALID ORIGINAL CONTROL NUMBER
88	RPID GIVE-UP NOT AUTHORIZED
89	CPID GIVE-UP NOT AUTHORIZED
90	MUST ENTER SECURITY SYMBOL OR CUSIP
91	NOT A CROSS TRADE
92	INVALID SECURITY
93	INVALID CONTRA SIDE
96	INVALID TRADE MODIFIER 4 TIME
97	INVALID P/A
98	CPID REQUIRED
99	INVALID CLEARING FLAG
103	SECURITY NOT ORF AUTHORIZED
104	NO CONTROL NUMBER
105	TRADE ALREADY CANCELED
106	INVALID CONTRA CLIENT REFNUM
107	MM DID NOT ENTER TRADE
107	INVALID BRANCH SEQUENCE NUMBER
109	INVALID CONTRA BRANCH SEQUENCE NUMBER
110	INVALID AS-OF DATE
111	INVALID REVERSAL FLAG
112	NOT AN OPEN TRADE
112	INVALID CPID
118	INVALID TRADE DATE FOR CHANGED CUSIP
120	INVALID BREAK INDICATOR
-	

124	INVALID AGU
125	CORRECTION MAY NOT CHANGE REVERSAL FLAG
126	INVALID RP/CP USA
127	INVALID CP/CPGU USA
128	INVALID RP/RPGU USA
129	TRADE SUB TYPE MUST BE TRADETHROUGH
130	TTE REASON REQUIRED
131	INVALID PUBLISH INDICATOR FOR ODD LOT
134	INVALID PROCESS CODE
135	INVALID SHORT SALE INDICATOR
136	INVALID CLEARING RELATIONSHIP
138	EXECUTION TIME GREATER THAN TRADE REPORT TIME
139	NOT TRADE SUBMITTER
141	INVALID REPORTING FACILITY
143	CORRECTION MAY NOT CHANGE AS-OF FLAG
144	CORRECTION MAY NOT CHANGE CONTRA MPID
145	CORRECTION MAY NOT CHANGE CONTRA GIVEUP
146	CORRECTION MAY NOT CHANGE CONTRA CLEARING NUMBER
147	INVALID MATCH STATUS
148	INVALID ROLE
150	GIVE UP REQUIRED
151	EXPLICIT FEE MUST BE SUBMITTED FOR CLEARING
152	EXPLICIT FEE NOT ALLOWED
153	INVALID REJECT CONTROL NUMBER
154	ALREADY CLOSED OR REPAIRED
155	FUNCTION NOT SUBJECT TO REPAIR
158	INVALID EXECUTION DATE / SCRTY EFFECTIVE DATE COMBINATION
159	EXPLICIT FEE AGREEMENT NOT FOUND
160	ISSUE NOT ACTIVE
161	INVALID LOCKED-IN STATUS
165	CANNOT LINK TO ORIGINAL TRADE
166	SPECIAL PROCESSING INDICATOR
167	MPID NOT ACTIVE
168	SELLER DAYS REQUIRED
169	INVALID SELLER DAYS
170	TRADING NOT ALLOWED
176	FIX PROTOCOL ENTRY SUSPENDED
177	TRADE ENTRY SUSPENDED, EMC HALT
178	INVALID EXECUTION TIME
179	MPID NOT AUTHORIZED
180	QUANTITY REQUIRED
181	INVALID TRADE MODIFIER 1
182	INVALID TRADE MODIFIER 2
183	INVALID TRADE MODIFIER 3
184	INVALID TRADE MODIFIER 4
185	CONTRA P/A REQUIRED
187	INVALID SETTLEMENT DATE
188	INVALID PREPARATION DATE

189	INVALID CONTRA CLIENT TRADE IDENTIFIER
190	INVALID SPECIAL PROCESSING FLAG
191	INVALID LOCKED-IN INDICATOR
192	INVALID REPORTING OBLIGATION
193	INVALID CANCEL-BREAK INDICATOR
195	WEB PROTOCOL ENTRY SUSPENDED
196	INVALID RPID/CPID COMBINATION
197	ENTERING MPID IS HALTED
198	RPID IS HALTED
199	REPORTING PARTY GIVEUP IS HALTED
200	ISSUE NOT ACTIVE OR INACTIVE
201	EXECUTING PARTY NOT AUTHORIZED
202	INVALID TRADE OBLIGATION FOR AFFIRM
997	INVALID CONTRA CLIENT REFERENCE NUMBER
998	INVALID CLIENT REFERENCE NUMBER
999	CAN NOT BE PROCESSED AS SUBMITTED

7 Limitations

7.1 Field lengths and data types

All fields in this specification adhere to the standard FIX 4.4 field definitions. Please refer to <u>http://fixprotocol.org/specifications/FIX.4.4</u> for details.

In addition, this solution imposes the following restrictions on fields:

Tag	FIX tag name	Comment
448	PartyID	PartyID. Max valid 4 character MPIDs.
571	TradeReportID	Limited to 20 characters
572	TradeReportRefID	Limited to 20 characters
1041	FirmTradeID	Limited to 20 characters
1042	SecondaryFirmTradeID	Limited to 20 characters
32	LastQty	Format: Max eight digits.
		Format: nnnnnnnnnnn (for decimal unit price)
31	LastPx	nnnnnnnnnnn (for contract amount)
1003	TradeID	Max ten digits.
1126	OrigTradeID	Max ten digits.
523	PartySubID	Max 8 characters
22013	LockedInIndicator	FIX Data type: Boolean
22015	BranchOfficeCodeSequenceNumber	FIX Data type: String
376	ComplianceID	Max 20 characters.

8 Field Definitions

8.1 Field Descriptions and Values

The following contains the general definitions for all fields that are contained within the ORF message text. Some field definitions are also covered in sections 4.5 and 4.6 of this document. Any specific information that is relevant to a particular transaction type can be found in the description of the transaction. In addition, these definitions apply to both ORF Input and Output messages.

Tag	Field	Description
22005	SpecialProcessingFlag	This field allows a trade to be marked for special processing (e.g., position transfers). Where indicated, use of this field for special processing purposes MUST be authorized by FINRA Operations prior to submission of trades. Authorization will be granted on a trade by trade basis. Valid values are: N = No special processing (<i>or this tag may be omitted</i>) Y = Position Transfer (<i>AUTHORIZATION REQUIRED</i>) O = Clearing-Only, Non-Regulatory Report
		Note: the Clearing-Only, Non-Regulatory Report is used by firms for a previously executed trade for which a tape report has been submitted to ORF, or for the offsetting portion of a riskless principal or agency transaction for which a non-tape, non-clearing report already has been submitted to ORF satisfying FINRA regulatory requirements. Trades submitted with this indicator may not be submitted with Publish Indicator = Y. Please refer to FINRA Rule Filing 2015-035 for more information on the use of this value.
54	Side	Required. Identifies the side of the trade under the corresponding party role. Valid values are: 1 = Buy 2 = Sell 8 = Cross (internalized trade)
22024	ShortSaleIndicator	Indicates whether the trade is a short sale or short sale exempt trade. Valid values are: S = Short Sale E = Short Sale Exempt Note: The Short Sale Exempt value is currently not applicable to OTC Equity securities because such securities are not subject to Rule 201 of Regulation SHO and, thus, should not be marked as short exempt pursuant to Rule 200 of Regulation SHO. The Short Exempt value is reserved for future use in the event that rules change to allow Short Exempt order marking for OTC Equity securities.
32	LastQty	8 digit numeric field representing the actual number of shares traded (please note the ORF system will only allow a maximum quantity of 99,999,999 shares to be reported. Trades involving a quantity greater than this amount must be broken into multiple trade reports). Required field.
55	Symbol	A required field. Up to fourteen alphanumeric character security identifier. Please note: Symbol CANNOT be changed on a correction. In order to change the security on a previously submitted trade report, firms must cancel the original trade and submit a new trade with the correct Symbol.

Tag	Field	Description
65	SymbolSfx	An optional field. Up to seven alphanumeric character suffix assigned to
		the security that provides additional information regarding that security
		(e.g., preferred, warrants, etc.)
31	LastPx	A required maximum 13 character field which indicates the price at which the security traded. Can be entered as a decimal unit price or a contract amount, based on Price Type. Formats ('v' = <i>decimal point</i>) : Decimal Unit (PriceType = 98): 999999v999999 Contract Amount (PriceType = 99): 99999999999999
423	PriceType	Required field. Type of price submitted. Valid values are:
		98 = Decimal Unit Amount 99 = Contract Amount
9854	OverrideFlag	Used to indicate that the entered price is valid although it may fall outside the reasonability check made by the system. The override should not be used on initial submission; used only after a trade report has been rejected for having a price that is considered out of range.
9822	ClearingPrice	Price inclusive of Explicit Fee. Cannot equal the trade price. Can be entered as a maximum 13 character decimal unit price or contract amount, based on Price Type used. Formats (' $v' = decimal point$): Decimal Unit (PriceType = 98): 999999v9999999 Contract Amount (PriceType = 99): 99999999999999
22001	TradeModifier1	Settlement modifiers. Valid values are: C = Cash (same day) settlement N = Next Day settlement R = Seller's Option 0 = regular (T+32) settlement (or tag may be omitted)
855	SecondaryTrdType (aka Seller's Option Days)	Required days to settlement when Trade Modifier $1 = R$. Valid values are $\frac{02, 04}{03} - 60$, otherwise this tag must be omitted.
22003	TradeModifier3	Time modifiers to be submitted by the reporting party identifyingExtended hours/Late sale conditions, when applicable, otherwise the tagmay be omitted. Valid values are:T = Trade executed outside normal market hoursZ = Trade executed during normal market hours and reported lateU = Trade executed outside normal market hours and reported lateNote: FINRA will also determine and generate time modifiers and appendaccordingly on the outbound acknowledgement.
22004	TradeModifier4	 SRO detail sale condition. Required modifier if a trade falls under one of the following transaction types, otherwise omit the tag: W = Weighted Average Price S = Stopped Stock P = Prior Reference Price X = Trade related to option exercises
		R = Trade price unrelated to the current market Note: values S and P may only be submitted if the associated SS or PRP time is more than 10 seconds prior to both the execution time and the time
22018	TradeModifier4Time	R = Trade price unrelated to the current market Note: values S and P may only be submitted if the associated SS or PRP

Tag	Field	Description
		acting as "P" for principal, "A" for agency or "R" for riskless principal on this trade. Required for the Executing Firm side. Required for the Contra
		Firm side on Locked In (AGU/QSR) trades. Required for the Contra Firm
		side on non-clearing (ClearingInstruction = 97) trades (where the contra
		firm does not submit their version of the trade or Accept the trade alleged against them). Allowed on the Contra Firm side on Cross trades and on
		Customer trades.
22030	ReportingObligation	Required field. Indicates whether or not this trade report represents the
		submission from the member firm with the trade reporting obligation, as
		defined under FINRA Rule 6622(b). Valid values are:
		Y = Trade reported by firm with the reporting obligation
1015	AsOfIndicator	N = Trade reported by firm that does not have the obligationThis field is used to denote whether the trade is an As-Of trade entry (i.e.,
1015	Asomulation	executed on a prior day), or a cancel or correction of an As-Of trade. Valid values are:
		0 = Current day trade
		1 = As-Of(T+n) trade
		Note: "1" is required on all Reversals. "1" is required on Corrections of
		prior day submissions and T-day submissions originally submitted as an
		As-Of trade. For Corrections of non-As-Of T-day submissions, this field must be "0" or omitted.
75	TradeDate	The date that the transaction was executed (<i>aka Execution Date</i>). For an
		As-of trade (As-Of Indicator = 1), the date must be $T+1$ or older. The
		format is YYYYMMDD.
		Note 1: On non-As-Of trades, the Trade Date cannot be changed on a
		Correction submission to a different date than what was originally submitted. Firms would be required to Concel the original trade and
		submitted. Firms would be required to Cancel the original trade and resubmit a new Trade Report with the intended Trade Date.
		On As-Of trades, the Trade Date can be changed only to a date prior
		to the original execution date. The Trade Date cannot be changed to a
		date that is subsequent to the original execution date. In the case of
		the latter, firms would be required to Cancel the original trade and resubmit a new As-Of Trade Report with the intended Trade Date.
		Note 2: Trades executed on non-business days (i.e., weekends and
		holidays) and trades executed greater than 365 days prior to a current
		day are reportable to ORF with the exact date of execution. Non-
		business day trades and T+365 trades cannot be marked for clearing
		on the submission to ORF. Non-business day trades must be reported as As-Of by 8:15am ET the next business day with the appropriate
		outside normal market hours modifier.
22007	Execution Time	This is a required field. A field denoting the time of execution in military
		time (HHMMSSsss) format where HH represents hours, MM represents
		minutes, SS represents seconds and sss represents milliseconds. Must
		represent the execution based on Eastern Time, but entered in UTC (GMT) under FIX protocol.
		Note 1: If a firm's system does not capture milliseconds, firms must
		submit zeros ("000") in the milliseconds portion of this timestamp.
		Note 2: On Corrections, Execution Time can be changed only to a time prior to the originally submitted execution time. Execution time cannot be changed to a time that is subsequent to the originally
		submitted time. In the case of the latter, firms would be required to

Tag	Field	Description
		Cancel the original trade and resubmit a new Trade Report with the
		intended Execution Time.
58	Text	An optional ten character alphanumeric Memo field.
22013	LockedInIndicator	Indicates that the reporting party entering the trade report is reporting for both sides of the trade in a single trade report, as an AGU (Automatic Give Up) trade or as a QSR (Qualified Service Representative) trade. Valid values are: A = AGU trade report Q = QSR trade report
		Firms may use the Locked-In Indicator to identify an AGU trade report when a firm trades with one of its correspondents (one-sided AGU trade), or when a firm reports a trade executed between two of its correspondents (two-sided AGU trade). A correspondent must be a FINRA member and is entered under one or both Give Up fields (on two-sided Locked-In trades). The reporting party's MPID must be the same on the RPID and CPID fields.
		Firms may use the Locked-In Indicator to identify a QSR trade report when a firm has an agreement to report on behalf of their contra party for an execution they entered into. For QSR trade reports, the RPID and CPID cannot be the same and only the Contra Party Give Up field can be used.
		Locked-In trades cannot be submitted as Cross trades (54=8).
		A Uniform Service Agreement must be in place in order for firms to submit Locked In trade reports.
376	ComplianceID (aka OATS Identifier)	Required by FINRA on all trade reports where either the reporting or contra party was also required to submit an OATS Execution Report to FINRA pursuant to FINRA Rule 7450. The OATS Identifier shall be reported in Tag 376 ComplianceID. This field allows up to 20 alphanumeric characters.
64	SettlDate	Optional, used for informational purposes only. Specific date of trade settlement (Settlement Date) in YYYYMMDD format. Note: if settlement is other than regular way, the appropriate settlement modifier must be entered in Trade Modifier 1 (Tag 22001).
577	ClearingInstruction	Indicates if the trade should be forwarded to NSCC for clearing. Required. Valid values are: 0 = send to clearing 97 = do not send to clearing Note: on AGU trades (Tag 22013 = A), this field MUST be set to "0" (send to clearing).
852	PublishTrdIndicator	Indicates that the trade should be published to the tape (disseminated). Required. Valid values are: Y = report to the tape N = do not report to the tape
81	ProcessCode (aka Special Instruction Indicator)	This field indicates if the trade falls under any of the following conditions: 7 = Special trade 3 = Step Out trade 8 = Special and Step Out trade 2 = Step In trade 9 = Special and Step In trade A = Step Out trade with Fees (for Section 3)

Tag	Field	Description
		B = Special and Step Out trade with Fees (for Section3) 0 = regular trade (none of the above) or tag may be omitted A special trade (7), special/step out trade (8), special/step in trade (9) and special/step out trade with fees (B) instructs the NSCC not to include the trade in the CNS settlement process.
9277	Related Market Center	Available on transaction reports submitted through ORF such as step outs, non-tape, and riskless principal transactions, the market where the underlying transaction was reported, as applicable, otherwise omit the tag. Valid values are: O = Unknown Market Center U = Unspecified Multiple Market trades 0 = ORF F = Foreign Market
527	SecondaryExecID (akaTrade Reference Number)	Used to discretely tie a Media eligible trade to one or more non-Media eligible trades, e.g., same ref number used on a Media trade and on a riskless principal trade. Up to 20 characters allowed.
22011	ControlDate	When a trade is submitted to ORF and accepted, the system will return a Control Date with the trade acknowledgement. The Control Date reflects the date when the system received and processed the trade entry. Control Date, in combination with Control Number, is required in subsequent trade cancel and correction messages to modify a trade report. Firms that elect to use their Client Trade Identifier (FirmTradeID) to Cancel or Correct a trade (within the T through T-3 period) must still submit the Control Date assigned to the original trade report. Trade corrections will receive a new Control Date/Control Number trade identifier.
1003	TradeID (aka Control Number)	When a trade is submitted to ORF and accepted, the system will assign a Control Number which will be returned on the trade acknowledgement. The Control Number is a 10 digit identifier of the trade, which will be unique throughout the day. Control Date, in combination with Control Number, is required in subsequent trade cancel and correction messages to modify a trade report. Trade corrections will receive a new Control Date/Control Number trade identifier. In ORF, all control numbers will start with the value "5" followed by nine sequential numeric integers.
22029	ReferenceReporting Facility	Used if a participant transitions from one FINRA Reporting Facility to another and the participant needs to reverse a trade on the new reporting facility that was originally entered on the old reporting facility. This field is only available on Trade Reversals. Valid values: A = ADF Q = FINRA/NASDAQ TRF N = FINRA/NYSE TRF

9 Sample FIX Submissions

This section contains basic examples of various trade report types and submissions to ORF. For simplicity, only the pertinent tags are used in these examples. Firms must still refer to the input layouts specified in section 5 of this document.

9.1 Interdealer Trade Report – with Reporting responsibility

Where contra party is another FINRA member.

- Firm ABCD is submitting the trade and is the party with the reporting obligation.
- Firm WXYZ is ABCD's counter party.
- ABCD is the seller, WXYZ is the buyer.
- ABCD is acting in a Principal capacity.
- The trade is tape reportable and to be sent to clearing.
- The only other party identified is the reporting party's clearing firm.

Field	Tag=Value	Description
Reporting		Firm ABCD indicates it is the firm with the responsibility to
Obligation	22030=Y	report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=2	Sell side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the sell side.
Party ID	448=ABCD	First party on the sell side identified as ABCD.
Party Role	452=1	ABCD is the Executing (reporting) firm.
Party ID	448=1234	Second party identified as 1234.
Party Role	452=83	1234 is the clearing firm for ABCD.
Order Capacity	528=P	ABCD is acting in a Principal capacity.
Side	54=1	Buy side group.
Number of Parties	453=1	Indicates there is 1 party reported on the buy side.
Party ID	448=WXYZ	First party on the buy side identified as WXYZ.
Party Role	452=17	WXYZ is the Contra firm.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=Y	Send trade to the tape.

9.2 Interdealer Trade Report – with no Reporting responsibility

Where contra party is another FINRA member.

- Firm WXYZ is submitting the trade and is NOT the party with the reporting obligation.
- Firm ABCD is WXYZ's counter party.
- WXYZ is the buyer, ABCD is the seller.
- WXYZ is acting in an Agent capacity.
- The trade is not tape reportable but is to be sent to clearing.
- The only other party identified is the reporting party's clearing firm.

Field	Tag=Value	Description
Reporting		Firm WXYZ indicates it is not the firm with the
Obligation	22030=N	responsibility to report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=1	Buy side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the buy side.
Party ID	448=WXYZ	First party on the buy side identified as WXYZ.
Party Role	452=1	WXYZ is the Executing (reporting) firm.
Party ID	448=5678	Second party identified as 5678.
Party Role	452=83	5678 is the clearing firm for WXYZ.
Order Capacity	528=A	WXYZ is acting in an Agent capacity.
Side	54=2	Sell side group.
Number of Parties	453=1	Indicates there is 1 party reported on the sell side.
Party ID	448=ABCD	First party on the sell side identified as ABCD.
Party Role	452=17	ABCD is the Contra firm.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=N	Do not send trade to the tape.

Example 9.2 would be the matching submission to example 9.1. This would be the trade report submitted from the buyer's perspective.

9.3 Customer Trade Report

Where contra party is not a FINRA member.

- Firm ABCD is submitting the trade.
- A non FINRA member is ABCD's counter party.
- ABCD is the buyer, non-member is the seller.
- ABCD is acting in a Principal capacity and knows the contra party is also acting as Principal.
- The trade is tape reportable but is not sent to clearing.

Field	Tag=Value	Description
Reporting		On trade reports against a non-FINRA member, the
Obligation	22030=Y	reporting party always has the responsibility to report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=1	Buy side group.
Number of Parties	453=1	Indicates there is 1 party reported on the buy side.
Party ID	448=ABCD	First party on the buy side identified as ABCD.
Party Role	452=1	ABCD is the Executing (reporting) firm.
Order Capacity	528=P	ABCD is acting in a Principal capacity.
Side	54=2	Sell side group.
Number of Parties	453=1	Indicates there is 1 party reported on the sell side.
		First party on the sell side identified as "C", the standard
Party ID	448=C	mnemonic for a non-FINRA member (Customer).
Party Role	452=17	C is the Contra firm.
Order Capacity	528=P	C is acting in a Principal capacity.
Clearing		
Instruction	577=97	Do not send trade to clearing.
Publish Indicator	852=Y	Send trade to the tape.

All Customer trades must be reported as Reporting Obligation = Y, and not for Clearing. On Customer trades, the reporting party is allowed to submit the contra Capacity, and Compliance ID (OATS Identifier) if applicable.

9.4 Cross Trade Report

Where a trade is internalized or crossed between a FINRA members two customers.

- Firm ABCD is submitting the trade.
- ABCD is acting in an Agent capacity on both sides of the cross.
- The trade is tape reportable but is not sent to clearing.

Field	Tag=Value	Description
Reporting		On all Cross trade reports, the reporting obligation must
Obligation	22030=Y	always be set to "Y".
		Must always be set to "2" on all Cross trades to report both
Number of Sides	552=2	sides' information.
Side	54=8	First cross group.
Number of Parties	453=1	Indicates there is 1 party reported on the first cross side.
Party ID	448=ABCD	First party identified as ABCD.
Party Role	452=1	ABCD is the Executing (reporting) firm.
Order Capacity	528=A	ABCD is acting in an Agent capacity.
Side	54=8	Second cross group.
Number of Parties	453=1	Indicates there is 1 party reported on the second cross side.
		On cross trades, the reporting party and contra firm must
Party ID	448=ABCD	be the same.
Party Role	452=17	ABCD is the Contra firm.
Order Capacity	528=A	ABCD is acting in an Agent capacity.
Clearing		
Instruction	577=97	Do not send trade to clearing.
Publish Indicator	852=Y	Send trade to the tape.

All Cross trades must be reported as Reporting Obligation = Y, and not for Clearing. Publish Indicator may be set to Y or N. On Cross trades, the reporting party may submit the contra Capacity, and is allowed to submit the Compliance ID (OATS Identifier) if applicable.

9.5 AGU Trades

Where reporting party is executing against and submitting for another FINRA member.

- Firm EFGH is submitting the trade.
- Firm IJKL is EFGH's counter party and EFGH is also authorized to submit for IJKL.
- EFGH is the buyer, IJKL is the seller and the party with the reporting obligation.
- EFGH is acting in an Agent capacity, IJKL is acting in a Principal capacity.
- The trade is tape reportable and is to be sent to clearing.
- The other parties identified are both firms' clearing firms.

Field	Tag=Value	Description
Reporting		On all AGU trade reports, the reporting obligation must
Obligation	22030=Y	always be set to "Y".
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=1	Buy side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the buy side.
Party ID	448=EFGH	First party identified as EFGH.
Party Role	452=17	EFGH is the Contra firm.
Party ID	448=5678	Second party identified as 5678.
Party Role	452=83	5678 is the clearing firm for EFGH.
Order Capacity	528=A	EFGH is acting in an Agent capacity.
Side	54=2	Sell side group.
Number of Parties	453=3	Indicates there are 3 parties reported on the sell side.
Party ID	448=EFGH	First party on the sell side identified as EFGH.
Party Role	452=1	EFGH is the Executing (reporting) firm.
Party ID	448=IJKL	Second party identified as IJKL.
Party Role	452=14	IJKL is the Giveup Firm, i.e., EFGH is giving up IJKL.
Party ID	448=1234	Third party identified as 1234.
Party Role	452=83	1234 is the clearing firm for IJKL.
Order Capacity	528=P	IJKL is acting in a Principal capacity.
Locked In		
Indicator	22013=A	Indicates the trade report is an AGU trade.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=Y	Send trade to the tape.

All AGU trades must be reported as Reporting Obligation = Y, and must be set for Clearing. Publish Indicator may be set to Y or N. On AGU trades, the reporting party MPID must be the same as the contra party MPID, and the Give up party can be on either side. In the above case, since the Give up Firm has the reporting responsibility, it is included in the nested group of the executing party role. On all AGU trades, the contra Capacity must be submitted, and the reporting firm is allowed to submit the Compliance ID (OATS Identifier) if applicable.

Note: A Uniform Service Agreement (USA) is required in order to submit AGU trades on behalf of reported parties.

9.6 Give Up Trades

Where reporting party is submitting for a FINRA member who executed against another FINRA member.

- Firm EFGH is submitting the trade.
- EFGH is authorized to submit for IJKL, who executed a trade against WXYZ.
- IJKL is the buyer, WXYZ is the seller and the party with the reporting obligation.
- IJKL is acting in a Principal capacity.
- The trade is not tape reportable but is to be sent to clearing.

Field	Tag=Value	Description
Reporting		Firm EFGH, giving up IJKL, indicates IJKL is not the firm with
Obligation	22030=N	the responsibility to report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=1	Buy side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the buy side.
Party ID	448=EFGH	First party identified as EFGH.
Party Role	452=1	EFGH is the Executing/reporting firm.
Party ID	448=IJKL	Second party identified as IJKL.
Party Role	452=14	IJKL is the Giveup firm.
Order Capacity	528=P	IJKL is acting in a Principal capacity.
Side	54=2	Sell side group.
Number of Parties	453=1	Indicates there is 1 party reported on the sell side.
Party ID	448=WXYZ	First party on the sell side identified as WXYZ.
Party Role	452=17	WXYZ is the Contra firm.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=N	Do not send trade to the tape.

Give up trades may be reported as Reporting Obligation = Y or N depending on the reporting responsibility of the Giveup firm. Giveup trades can be set to Clear or not, can be set to Publish or not. The Giveup firm's Capacity must be submitted, and the reporting firm is allowed to submit the Giveup firm's Compliance ID (OATS Identifier) if applicable.

Note: A Uniform Service Agreement (USA) is required in order to give p firms on a trade report.

9.7 QSR Trades

Where reporting party is executing against and submitting for another FINRA member using the NSCC QSR agreement.

- Firm EFGH is submitting the trade.
- Firm IJKL is EFGH's counter party and EFGH is also authorized to submit for IJKL.
- EFGH is the seller and the party with the reporting obligation, IJKL is the buyer.
- EFGH is acting in an Agent capacity, IJKL is acting in a Principal capacity.
- The trade is tape reportable and is to be sent to clearing.
- The other parties identified are both firms' clearing firms.

Field	Tag=Value	Description
Reporting		Firm EFGH indicates it is the firm with the responsibility to
Obligation	22030=Y	report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=2	Sell side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the sell side.
Party ID	448=EFGH	First party identified as EFGH.
Party Role	452=1	EFGH is the Executing/reporting firm.
Party ID	448=1234	Second party identified as 1234.
Party Role	452=83	1234 is the Clearing firm for EFGH.
Order Capacity	528=A	EFGH is acting in an Agent capacity.
Side	54=1	Buy side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the buy side.
Party ID	448=IJKL	First party on the sell side identified as IJKL.
Party Role	452=17	IJKL is the Contra firm.
Party ID	448=5678	Second party on the sell side identified as 5678.
Party Role	452=83	5678 is the Clearing firm for IJKL.
Locked In		
Indicator	22013=Q	Indicates the trade report is a QSR trade.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=Y	Send trade to the tape.

QSR trades may be reported as Reporting Obligation = Y or N depending on the role of the reporting party. QSR trades may be set to Clear or not. Publish Indicator may be set to Y or N. On QSR trades, a give up on the contra side group is allowed, if applicable. On all QSR trades, the contra Capacity must be submitted, and the reporting firm is allowed to submit the Compliance ID (OATS Identifier) if applicable. Note: A Uniform Service Agreement (USA) is required in order to submit QSR trades on behalf of reported parties.

9.8 Step In / Step Out Trades

When two FINRA members are reporting a step out trade.

- Firm MNOP is submitting the trade.
- Firm QRST is MNOP's counter party.
- MNOP is stepping out to QRST and is the the seller, QRST is the buyer (and stepping in).
- MNOP is acting in a Principal capacity,
- The trade is to be sent to clearing.

Field	Tag=Value	Description
Reporting		Firm MNOP as the part stepping out indicates it is the firm
Obligation	22030=Y	with the responsibility to report.
Number of Sides	552=2	Must always be set to "2" to identify the buy and sell sides.
Side	54=2	Sell side group.
Number of Parties	453=2	Indicates there are 2 parties reported on the sell side.
Party ID	448=MNOP	First party identified as MNOP.
Party Role	452=1	MNOP is the Executing/reporting firm.
Party ID	448=1234	Second party identified as 1234.
Party Role	452=83	1234 is the Clearing firm for MNOP.
Order Capacity	528=P	MNOP is acting in a Principal capacity.
Side	54=1	Buy side group.
Number of Parties	453=1	Indicates there is 1 party reported on the buy side.
Party ID	448=QRST	First party on the sell side identified as QRST.
Party Role	452=17	QRST is the Contra firm.
Process Code	81=3	Indicates the trade report is a Step Out trade.
Clearing		
Instruction	577=0	Send trade to clearing.
Publish Indicator	852=N	Do not send trade to the tape.

The firm stepping out must always set Reporting Obligation = Y. Step Out trades are clearing transactions and must be set to Clear. Step Out trades are non-tape reportable and Publish Indicator must be set to N.

For the firm stepping in, the above tags would be used with the following exceptions:

- Tag 22030=N (firm stepping in must always set this field to N.
- Firm stepping in would identify itself as the executing firm (Tag 452=1) and the other side as the contra firm (Tag 452=17), and report under the proper Side group.
- Tag 81=2 (indicates the submission is a Step In trade).

Step in and Step Out trades are matched against each other and sent to clearing by ORF.

Revision History

Revision	Date	Comment
1.0	11/30/2012	• Initial version.
1.1	1/25/2013	 Revised throughout document that clearing number is not a required field and if not submitted, will default to firm's primary clearing relation. In section 5.1.1 tag 22013, removed statement that all Locked-In trades must be submitted as sells. Removed tags 22002 (TradeModifier2) and 829 (TrdSubType) from all in/out messages (not applicable to ORF). Tag 577 (ClearingInstruction) – added note to Comments that tag must be set to '0' on all AGU trades. Tag 9277 (RelatedMarketCenter) – revised valid values for this field. Section 5.1.6 Trade Decline – redefined message to indicate it can be used by either side to the trade. Also redefined tag 54 (Side) and removed tags 453, 448, 447 and 452 to this message, as well as the corresponding ORDK message (section 5.2.7). Sections 5.2.1 (OREN), 5.2.4 (ORHX) and 5.2.5 (ORCR) – added tag 22031 (FINRATradeModifier4). Added section 5.2.2, ORAL Allege message confirmation. Section 5.2.3 (ORCX) – redefined Comments on various tags. Section 5.2.8 (ORMA) – removed tags 572 and 881.
1.2	11/8/2013	 Section 5.2.8 (ORMA) – removed tags 572 and 881. Revised throughout document that ORF will retain 4 rolling business days (T date through T-3) of online trade reports, instead of 5. Added Acknowledgement type codes for the Clearing versions of confirmations that can be sent to reporting/contra parties' clearing firms. Added Tag 572 (TradeReportRefID) to Reject messages. Added Tag 1041 (FirmTradeID) to most messages. For Cross trades, amended numb of sides (Tag 552) to "2". Expanded Tag 81 (ProcessCode), aka Special Instruction Indicator, to support values for reporting Step Ins, and Step Outs with Section 3 Fee reports. Removed Tag 1042 (SecondaryFirmTradeID) to Accept messages. Removed Tag 107 (SecurityDesc) from all messages. Removed Tag 22026 (PriorDayClearingInstruction) from all messages. Removed Tag 22031 (FINRATradeModifier4) from all messages. Revised values for Tag 9857 (LockedInMethod) in the confirmed Match message. Added section 6.3 to list Reject reasons and codes.
1.3	3/4/2014	 Added tags 115 and 116 to inbound header for OBO reporting (sect. 3.13.1) Added tags 128 and 129 to outbound header for OBO reporting (sect. 3.13.2) Removed Party Role of "Entering Firm" and value "7" throughout document Clarified the definition and use of the Reporting Obligation field (tag 22030) in sect. 4.5.8 Updated sect. 4.5.9 for service bureau reporting (using OnBehalfOf methodology) Renamed Party Role of "Clearing Account Number" (value 83) to "Clearing

		Firm Number
		• Changed OATS Identifier (ComplianceID) definition as a required field
		• Changed tag 453 to always be set to "1" on inbound Cancel (sect. 5.1.2)
		• Removed FINRATradeModifier4 from outbound ORAL (sect. 5.2.2)
		• Removed a few Reject Codes that are not applicable to ORF (sect. 6.3)
		• Added new section 8 (Field Definitions).
1.4	7/11/2014	• Sect. 1.1 – added the ORF normal operating hours.
		• Sect. 4.6.9 – removed reference to Rule Filing SR2013-50 in Trade Modifier 4 Time.
		• Sect. 5.1.2 – further defined the processing of Break messages as it applies to trades Accepted by the contra party (CP).
		• Sect 5.1.5 – added a note for the use of Short Sale Indicator on Trade Accepts.
		• Sect. 5.1.6 – additional comments to the definition and processing of Declines.
		 Sect 5.2.3 – expanded the Cancel confirmation to support Break message processing by adding new ORBX/OCBX message event source.
		• Sect. 5.2.8 – added value "L" to tag 9857 for auto-locked trades.
		 Sect 8.1 – added Note 2 to definition of Trade Date regarding non-business day and T+365 trades.
		• Sect 9 – added this new section to provide examples of tag usage for various types of basic trade reports.
1.5	10/1/2015	• Sect. 5.1.1 and sect. 8.1 - Introduction of new value "O" to tag 22005 for clearing-only, non-regulatory reports.
<u>1.6</u>	<u>3/31/17</u>	Updated SecondaryTrdType and TradeModifier1 for T+2 Settlement.