

# FIX Specifications for the Over the Counter Trade Reporting Facility

Version 1.4

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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. <sup>1</sup>

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.

<sup>&</sup>lt;sup>1</sup> All entries, including contra party Accepts and Declines, will not be allowed past 8:00pm ET. ORF FIX Specification ver 1.4

## 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 CompIDs

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

ORF FIX Specification ver 1.4

		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
115	OnBenallOlCompiD	advised not to do so.
		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		
			Time of message transmission (always expressed in UTC
52	SendingTime	Y	(Universal Time Coordinated, also known as "GMT"))
122	OrigSendingTime		
			Your MPID as stated in Tag 115 in the inbound message
128	DeliverToCompID		is returned to the service bureau in this tag.
			Your I1I2 as stated in Tag 116 in the inbound message is
129	DeliverToSubID		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.
- The counterparty uses TradeReportRefID in Accept/Decline messages to reference TradeReportIDs set by the marketplace in Alleged transactions.

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.

## 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.

## 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 Control Date

*ControlDate (22011) is a FINRA extension to FIX 4.4.* ControlDate, in combination with Control Number, uniquely identifies a trade throughout the life of the system. Since Control Numbers can be duplicated from day to day, ControlDate allows for the specific identification of a trade record based on the date of entry. ControllDate shall be generated in the format YYYYMMDD and shall reflect the date that the trade was received by FINRA from the submitting firm. ControlDate is required on all subsequent Trade Cancels, Reversals and Corrections.

## 4.5.5 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.

## 4.5.6 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.

#### 4.5.7 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). This field can only be submitted on Locked-In trades.

#### 4.5.8 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
	their give ups. Can be set for the Contra party only if the reporting firm
Giveup Firm	submits the trade as a Locked-in trade.
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 (Contra party branch office may only be submitted on Locked-In trades). Maximum of 8 alphanumeric characters allowed.
- **PartySubIDType** (803) Type of sub identifier. In this solution always set to 24 = Department.

The Parties sub identifiers are only allowed to be attached to the reporting party or to the contra party (on Locked-In trades). 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 sell<sup>2</sup>. 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 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

<sup>&</sup>lt;sup>2</sup> The exception is Trade Cancels, which only contains one side (the reporting side). ORF FIX Specification ver 1.4

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.

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

#### 4.5.9 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, I1I2s 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 Tag 115 OnBehalfOfCompID: Tag 116 OnBehalfOfSubID:	IJKL 4444
Client #4 Tag 115 OnBehalfOfCompID: Tag 116 OnBehalfOfSubID:	MNOP 5555

<sup>&</sup>lt;sup>3</sup> 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.

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#### 4.5.10 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. Allowed on Locked-In (AGU/QSR), Cross (Side = 8), and Customer (Contra Firm MPID = C) trade entries. Allowed on Trade Accepts. Allowed on trades where the contra party will not submit a matching trade or trade accept.

## 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.
		<b>NOTE 1:</b> times are given in <b>UTC</b> (GMT).
UTCTimestamp		NOTE 2: FIX allows milliseconds as well.
	YYYYMMDD	Standard date. Notice that it is <b>NOT</b> in UTC. Used in standard
LocalMktDate		tags such as TradeDate (75).
	HH:MM:SS.sss	Basically the time part of a UTCTimestamp.
UTCTimeOnly		<b>NOTE:</b> times are given in <b>UTC</b> (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. **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. The OrigControlDate reflects the date when the system received and processed the *original* trade entry. It is found on trade correction and reversal inbound and 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.

Note: The reporting of this field is subject to SEC approval of FINRA Rule Filing SR-2013-50. Format: UTCTimeOnly

## 5 Equity Trade Message Formats

## 5.1 Inbound Trade Report Messages

Tag	FIX tag name	Req'd	Comment
	Standard Header	Y	MsgType = AE
			Client-generated identifier (reporting participant firm), not
571	TradeReportID	Y	to exceed 20 characters.
			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.
			FINRA Extension to FIX 4.4:
1010			The Contra Client Identifier assigned to a trade by the
1042	SecondaryFirmTradeID		contra side. Only used for Locked-in Trade Reports.
107	TradaDapartTrapaTupa	Б	Valid Values:
407	Падекеропттальтуре	Г	
856	TradeReportType	F	0 - Submit
000			Indicates if the trade capture report was previously
			reported to the counterparty
			Valid values:
570	PreviouslyReported	Y	N = No
			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 an AsOf trade
55	Symbol	F	Ticker symbol. Max size: 14 characters.
			Symbol suffix. Additional information about the security
65	SymbolSfx		(e.g., preferred, warrants, etc.)
			Trade Volume as number of shares.
32	LastQty	Y	Format: max 8 characters, no decimal.
			I rade Price. Can be entered as a decimal unit price or as
			a contract amount price (see Tag 423 Price Type).
			Maximum of 6 digits allowed before the decimal
			Maximum of 6 digits allowed after the decimal
			Format: nnnnnnnnn nn (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
			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: nnnnnnnnnnn (6v6), when Tag 423 = 98.
			Maximum of 6 digits allowed before the decimal.
			Iviaximum of 6 algits allowed after the decimal.
			Format. nnnnnnnnnnnn (10v2), when I ag 423 = 99.
0822	ClearingPrice		Waximum of 2 digits allowed before the decimal.
9822	ClearingPrice		Maximum of 10 digits allowed before the decimal. Maximum of 2 digits allowed after the decimal.

5.1.1 Trade Capture Report – Reporting a trade (in)

75	TradoDato		v	Execution Date. Interpreted as an As-Of trade if not		
75	Hau	eDai	e		I	Time the transaction represented by this Trade Capture
						Report occurred (in UTC/GMT).
60	Tran	sact	Time		Y	Format: YYYYMMDD-HH:MM:SS.sss
64	Settl	Date				Specific date of trade settlement (Settlement Date) in YYYYMMDD format. Optional
						Specifies whether or not this trade report represents the
						submission from the member with the trade reporting
						Valid values:
						Y = Trade reported by the member with the reporting
						obligation.
			<b>.</b>		_	N = Trade reported by the member who <u>does not</u> have
22030	Repo	orting	jOblię	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	apR	ptSid	eGrp/NoSides	Y	Contra party must be the same MPID.
				•		Side of trade.
						Valid values:
						1 = Buy
	54	Sido			v	2 = Sell
			V	0 – Closs Required in EIX, but ignored		
				I	Number of parties on the reporting/contra side of the	
$\rightarrow$	453Parties/NoPartyIDs		F	trade.		
						Identifier for the type of party defined in PartyRole. Either
		4.40			-	an MPID or a Clearing Account number or "C" for
$\rightarrow$	$\rightarrow$	448	Party	/ID	F	customer on the contra side.
						C = Generally accepted market participant identifier (e.g.
$\rightarrow$	$\rightarrow$	447	Party	/IDSource	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	Party	/Role	F	primary clearing firm)
$\rightarrow$	$\rightarrow$	802	NoPa	artySubIDs		PartySubID is only allowed for PartyRole = 1 or 17.
						Sub-identifier. Branch office of executing/contra firm
						(Branch Sequence Number /Contra Branch Sequence
						Number). Up to 8 characters allowed.
			500	PartySubID		Contra PartySubiD may only be entered on Locked-In
$\rightarrow$	$\rightarrow$	$\rightarrow$	523	r artySuDID		Type of PartySubID (523) value
						Valid values:
$\rightarrow$	$\rightarrow$	$\rightarrow$	803	PartySubIDType		24 = Department
						Designates the capacity of the reporting/contra party.
						Valid values:
						A = AgenCy P = Principal
	528	Orde	rCan	acity	F	r – rincipal R = Riskless Principal

			Required on the reporting side. Contra side is required on all Locked-In trades.
$\rightarrow$	58	Text	Free format user Memo field. Not to exceed 10 characters.
$\rightarrow$	376	ComplianceID	OATS Identifier. Not to exceed 20 characters.
			FINRA Extension to FIX 4.4.
			Valid values:
			Y = Yes
			N = No (default value)
			Price override may only be submitted after the initial
9854	Ove	rrideFlag	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
			sided give up) 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
			A Uniform Service Agreement (USA) must be in place in
22012		adlaladiaatar	order for firms to submit trade reports on benait of their
22013	LOCK		Give ups of contra parties and as Locked-In trades.
			FINRA EXIENSION 10 FIX 4.4. This field allows a trade to be marked for special
			processing (e.g. position transfers) MUST be authorized
			by FINRA Operations prior to submission of trades.
			Valid values:
			N = No Special Processing (default)
22005	Spec	cialProcessingFlag	Y = Position Transfer
			FINRA Extension to FIX 4.4.
			Settlement modifiers. Valid values are:
			0 – regular (T+3, default)
			C = Cash (same day)
			N = Next Day
22001	Trad	eModifier1	R = Seller's Option
			Days to settlement:
			02, 04 - 60 = Seller's Option
			Can anly be submitted when Ten 22004 TradeMedifierd
855	Seco		-R
			FINRA Extension to FIX 4.4.
			Time modifiers. Submitted by the participant firm.
			Valid values are:
			T = Executed outside normal market hours
			$\angle$ = Executed during normal market hours and reported
			liate
22003	Trad	eModifier3	late
22000	Trad	eModifier4	FINRA Extension to FIX 4.4
22004	IIIau		

			SRO detail sale condition. Required indicator (subject to SEC approval of FINRA Rule Filing SR-2013-50) if a trade falls under one of the following transaction types (otherwise the field must not be set):
			S = Stopped Stock P = Prior Reference Price X = Trade related to option exercises
			Time associated with Prior Reference Price or Stopped Stock trade, (in <b>UTC/GMT</b> ). Format: HH:MM:SS.sss
22018	TradeModifier4Time		Required when Tag 22004 TradeModifier4 = S (Stopped Stock) or P (Prior Reference Price).
22007	ExecutionTime	F	Execution time (in UTC/GMT). Format: HH:MM:SS.sss
00000	Descention Time :		Time of trade submission (in <b>UTC/GMT</b> ) by the
22009	Preparation I ime		participant firm. Optional. Format: HH:MM:SS.sss
22022	ServiceBureauPrepTime		(in <b>UTC/GMT</b> ). 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
01	Brassacada		A = Step Out trade with Fees (for Section 3) B = Special and Step Out trade with Ecos (for Section 2)
01	ProcessCode		B = Special and Step Out trade with Fees (101 Section 3)
			cligible trade to one or more per Media cligible trades
			E a 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),
5//			Use a ringinstruction MUST be set to 'U' (send to clearing).
			Indicates that the trade should be published to the tape
			V - Report by rules
852	PublishTrdIndicator	F	N = no report
002		•	S = Sold Short
22024	ShortSaleIndicator		E = Sold Short Exempt
			O = unknown mkt ctr
			U = unspecified mult mkt trades
			0 = ORF
9277	RelatedMarketCenter		F = Foreign Market
	Standard Trailer	Y	

## 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). <u>Trades that were</u> 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	TradelD		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
856	TradePoportTupo	F	<ul> <li>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. </li> <li>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 TradeD of the trade that was accented </li> </ul>
630	TradeReportrype	Г	Indicates if the trade capture report was previously reported to the counterparty. Required in FIX, but ignored in cancels. Valid values:
570	PreviouslyReported	Y	N = No
1015	AsOfIndicator		Must reflect value submitted on original trade report. Valid values: 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.
				Required in FIX, but ignored in cancels. Can be set
_	32	LastQty	Y	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.
ſ				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.
ſ				Side of trade. Valid values:
				1 = Buy
				2 = Sell
	$\rightarrow$	54Side	Y	8 = Cross (cannot be used on Break entries)
	$\rightarrow$	37 OrderID	Y	Required in FIX, but ignored
	$\rightarrow$	453 Parties/NoPartyIDs	F	Number of parties. Always set to "1".
	$\rightarrow$	→ 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)
				Valid values: 1 = Executing Firm 17 = Contra Firm (this value only to be used by the
	$\rightarrow$	$\rightarrow$ 452PartyRole	F	contra party on breaks of accepted trades.
ſ		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.

Тад	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		The Contra Client Identifier assigned to a trade by the contra side. Only used for Locked-in Trade Reports.
22012	OrigControlDate	F	Control Date of the original trade.
1126	OrigTradeID	F	FINRA Control Number of the original trade.
22029	ReferenceReportingEacility		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 N = FINRA/NASDAQ TRF
22020			Valid values:
487	TradeReportTransType	F	4 = Reverse
856	TradeReportType	F	Valid values: 0 = Submit
570	PreviouslyReported	Y	Indicates if the trade capture report was previously reported to the counterparty. Required in FIX, but ignored in Reversals. Valid values: N = No
570		- 1	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			As submitted on the original trade report.
75	TradeDate	Y	report.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
64	SettiDate		Settlement Date submitted on original trade report.

Valid Values:         Y = Trade reported by the member with the reporting obligation.         22030       ReportingObligation         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 Contra party must be the same MPID.         Side of trade submitted on original trade report.         Valid values:         1 = Buy         2 = Sell         Side of trade as submitted on toriginal trade report.         Valid values:         1 = Buy         2 = Sell         Side of trade as submitted on the original trade report.         Valid values:         1 = Buy         2 = Sell         Ats3 parties/NoPartyID         Y = Trade as submitted on the original trade report.         Valid values:         1 = Buy         At48PartyID         F       tidentifier (e.g. FINRA mnemonic)         V Valid values:         1 = Executing Firm         1 = Executing Firm         1 = Executing Firm         1 = Contra Firm         Y = Ats2PartyRole       F         8 = Clearing Account number or         Valid values:							As submitted on original trade report.
22030       ReportingObligation       F       Have the reporting obligation.         22030       ReportingObligation       F       have the reporting obligation.         N       = Trade reported by the member who does not and the reporting obligation.         Stet 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 one side for the Contra party.         Stet value to 2 (One side for the Contra party must be the same MPID.       Side of trade submitted on original trade report.         Valid values:       1 = Buy       2 = Sell         →       54Side       Y       Required in FIX, but ignored         Number of parties on the reporting/contra side of the trade as submitted on the original trade report.       Valid values:         →       443PartyID       F       C = Generally accepted market participant identifier or the type of party defined in PartyRole.         →       →       4447PartyIDSource       F       Side Grang Firm         →       →       442PartyID       F       C = Generally accepted market participant identifier (e.g. FINRA mnemonic)         →       →       442PartyID       F       33 = Clearing Firm         →       →       452PartySubID       PartySubID is only allowed for PartyRole = 1 or 17.         →       →       528PartySubIDTy							Valid values:
22030       ReportingObligation       F       N = Trade reported by the member who does not have the reporting obligation.         22030       ReportingObligation       F       have the reporting obligation.         Set value to 2 (Doe side for the Reporting party and one side for the Contra party). On Cross trades, set value to 2 and the Reporting party and Contra party must be the same MPID.         552       TrdCapRptSideGrp/NoSides       Y       party and Contra party must be the same MPID.         54       Side of trade submitted on original trade report. Valid values:       1 = Buy 2 = Sell         →       37OrderID       Y       Required in FIX, but ignored         →       443PartyID       F       the trade as submitted on the original trade report. Etither an MPID or a Clearing Account number or C for customer on the contra side.         →       448PartyID       F       C = Generally accepted market participant identifier (e.g. FINRA mnemonic)         →       447PartyIDSource       F       B3 = Clearing Firm 14 = Giveup Firm 14 = Riskless Principal         →       →       452PartyRole       F       B3 = Clearing Sirm Number         →       →       452PartySubID       PartySubID is on riginal trade report. Contra PartySubID may only be entered on Locked-In trades.         →       →       523PartySubIDType       24 = Department							reporting obligation
22030       ReportingObligation       F       have the reporting obligation.         22030       ReportingObligation       F       have the reporting obligation.         22030       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 Contra party must be the same MPID.         552       TrdCapRptSideGrp/NoSides       Y       Party and Contra party must be the same MPID.         →       54Side       Y       8 = Cross         →       37OrderID       Y       Required in FIX, but ignored         →       453Parties/NoPartyIDs       F       Iterate as submitted on original trade report.         →       448PartyID       F       trade as submitted on the original trade report.         →       448PartyID       F       trade as submitted on the original trade report.         →       +       448PartyID       F       trade as used the reporting/contra side.         →       +       448PartyIDSource       F       trade as used the report of the original trade report.         →       +       447PartyIDSource       F       trade as used the report or original trade report.         →       +       442PartyRole       F       83 = Clearing Firm Number       1 = Executing Firm         →							N = Trade reported by the member who does not
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 Contra party must be the same MPID. Side of trade submitted on original trade report. Valid values: 1 = Buy 2 = Seli         →       54Side       Y       Required in FIX, but ignored         →       37OrderID       Y       Required in FIX, but ignored         →       453Parties/NoPartyIDs       F       Ite trade as submitted on the original trade report. Identifier for the type of party defined in PartyRole. Either an MPID or a Clearing Account number or a Ce = Generally accepted market participant identifier for the type of party defined in PartyRole.         →       448PartyID       F       "C" for customer on the contra side.         →       447PartyIDSource       F       identifier (e.g. FINRA mnemonic)         ∨aid values:       1 = Executing Firm 14 = Giveup Firm 17 = Contra Firm 83 = Clearing Firm Number         →       + 452PartyRole       F       83 = Clearing Firm Number         →       + 452PartySubID       PartySubID is only allowed for PartyRole = 1 or 17. As submitted on original trade report. Contra PartySubID (523) value Valid values:         →       + 452PartySubID       PartySubID (523) value Valid values:         →       + 523PartySubIDType       24 = Department         →       + 528OrderCapacity       F         +       + 528OrderCapacity       F	22030	Repo	orting	obli	gation	F	have the reporting obligation.
and one side for the Contra party).       On Cross trades, set value to 2 and the Reporting party and Contra party must be the same MPID.         552       TrdCapRptSideGrp/NoSides       Y       Side of trade submitted on original trade report.         Valid values:       1 = Buy       2 = Sell         →       54Side       Y       R = Cross         →       37OrderID       Y       Required in FIX, but ignored         →       453Parties/NoPartyIDs       F       the trade as submitted on the original trade report.         →       443PartyID       F       the trade as submitted on the original trade report.         →       +       448PartyID       F       C = Generally accepted market participant identifier (e.g. FINRA mnemonic)         →       +       +       447PartyIDSource       F       Reference         ->       +       442PartyRole       F       83 Clearing Firm Number         ->       +       452PartyRole       F       83 Clearing Firm Number         ->       +       452PartySubID       PartySubID is only allowed for PartyRole = 1 or 17. As submitted on original trade report. Contra PartySubID (523) value         ->       +       +       523PartySubIDType       24 = Department         ->       +       +       803PartySubIDType       24 = D				<u>,</u>	9		Set value to 2 (One side for the Reporting party
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552       TrdCapRptSideGrp/NoSides       Y       party and Contra party must be the same MPID.         Side of trade submitted on original trade report.       Valid values:       1 = Buy         →       54Side       Y       8 = Cross         →       37OrderID       Y       Required in FIX, but ignored         →       453Parties/NoPartyIDs       F       the trade as ubmitted on the original trade report.         →       443PartyID       F       the trade as ubmitted on the original trade report.         →       →       448PartyID       F       'C' for customer on the contra side.         →       →       4447PartyIDSource       F       identifier (e.g. FINRA mnemonic)         →       →       447PartyIDSource       F       83 = Clearing Firm Number         →       →       447PartyIDS       PartySubID is only allowed for PartyRole = 1 or 17.         A       →       A Submitted on original trade report.       Contra PartySubID may only be entered on Locked-In trades.         →       →       →       523PartySubID       Locked-In trades.         →       →       →       \$30PartySubIDType       24 = Department         →       →       →       \$30PartySubIDType       24 = Department         ->       →							On Cross trades, set value to2 and the Reporting
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→       37 OrdenD       1       Required in PLX, but ignored         →       453 Parties/NoPartyIDs       F       Number of parties on the reporting/contra side of the trade as submitted on the original trade report.         →       →       448 PartyID       F       Identifier for the type of party defined in PartyRole.         →       →       448 PartyID       F       Identifier for the type of party defined in PartyRole.         →       →       447 PartyIDSource       F       Identifier (e.g. FINRA mnemonic)         →       →       447 PartyIDSource       F       Identifier (e.g. FINRA mnemonic)         →       →       442 PartyRole       F       Sale Clearing Firm Number         →       →       452 PartyRole       F       83 = Clearing Firm Number         →       →       452 PartySubIDs       PartySubID is only allowed for PartyRole = 1 or 17.         →       →       523 PartySubID       Locked-In trades.         →       →       523 PartySubID       Type of PartySubID (523) value         ∨aid values:       →       →       803 PartySubIDType       24 = Department         →       →       803 PartySubIDType       24 = Department       The capacity of the reporting/contra party as submitted on original trade report.         →	$\rightarrow$	04	Side			I V	0 = Cluss
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→       528OrderCapacity       F       Required on the reporting side. Contra side is required on all Locked-In trades.         →       58 Text       As submitted on original trade report.         →       376 ComplianceID       OATS Identifier as submitted on original trade report.         9854       OverrideFlag       As submitted on original trade report.         22013       LockedInIndicator       As submitted on original trade report.         22005       SpecialProcessingFlag       As submitted on original trade report.         22001       TradeModifier1       As submitted on original trade report.         855       SecondaryTrdType       As submitted on original trade report.							R = RISKIESS FIIICIPAI
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→       58 Text       As submitted on original trade report.         →       376 ComplianceID       OATS Identifier as submitted on original trade report. Not to exceed 20 characters.         9854       OverrideFlag       As submitted on original trade report.         22013       LockedInIndicator       As submitted on original trade report.         22005       SpecialProcessingFlag       As submitted on original trade report.         22001       TradeModifier1       As submitted on original trade report.         855       SecondaryTrdType       As submitted on original trade report.	$\rightarrow$	528	Orde	erCap	pacity	F	required on all Locked-In trades.
→       376 ComplianceID       OATS Identifier as submitted on original trade report. Not to exceed 20 characters.         9854       OverrideFlag       As submitted on original trade report.         22013       LockedInIndicator       As submitted on original trade report.         22005       SpecialProcessingFlag       As submitted on original trade report.         22001       TradeModifier1       As submitted on original trade report.         855       SecondaryTrdType       As submitted on original trade report.	$\rightarrow$	58	Text				As submitted on original trade report.
→       376 ComplianceID       report. Not to exceed 20 characters.         9854       OverrideFlag       As submitted on original trade report.         22013       LockedInIndicator       As submitted on original trade report.         22005       SpecialProcessingFlag       As submitted on original trade report.         22001       TradeModifier1       As submitted on original trade report.         855       SecondaryTrdType       As submitted on original trade report.							OATS Identifier as submitted on original trade
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22001     TradeModifier1     As submitted on original trade report.       855     SecondaryTrdType     As submitted on original trade report.	22005	Spec	cialPi	roces	singFlag		As submitted on original trade report.
855 SecondaryTrdType As submitted on original trade report.	22001	Trad	eMo	difier	1		As submitted on original trade report.
	855	Seco	ondai	ryTrd	Туре		As submitted on original trade report.

			Can only be submitted when Tag 22001 TradeModifier1 = R.
22003	TradeModifier3		As submitted on original trade report.
22004	TradeModifier4		As submitted on original trade report.
22018	TradeModifier4Time		As submitted on original trade report.
22007	ExecutionTime	F	Execution time (in <b>UTC/GMT</b> ) submitted on original trade report. Format: HH:MM:SS.sss
22009	PreparationTime		Time of trade reversal submission (in <b>UTC/GMT</b> ) by the participant firm to the Exchange. Format: HH:MM:SS.sss
22022	ServiceBureauPrepTime		Time Service Bureau prepared the reversal for submission (in <b>UTC/GMT</b> ). Format: HH:MM:SS.sss
81	ProcessCode		As submitted on original trade report.
527	SecondaryExecID		As submitted on original trade report.
			Indicates if the Reversal should be forwarded for clearing. 0 = send to clearing
577	ClearingInstruction	F	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	FirmTradelD		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. Only used for Locked-in Trade Reports.
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.
65	Symbol	Sfy			Symbol suffix submitted on original trade report. Please note Symbol Suffix cannot be amended on a Correction
- 00	Cymbol				Trade Volume (original amount reported or
32	LastQtv			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	Э		Original value or amended value.
					Execution Date (original date reported or
75	TradeD	ate		Y	amended date).
60	Transad	ctTim	e	Y	Time the transaction represented by this Trade Correction Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
					Settlement Date (original date reported or
64	SettIDat	e			amended date).
					Original or amended Reporting Obligation.
					Y = Trade reported by the member with the
					reporting obligation.
22020	Departi	Oh	ligation	-	N = I rade reported by the member who does not
22030	Reportin	lgOb	igation	Г	Nave the reporting obligation.
					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	TrdCap	RptS	ideGrp/NoSides	Y	MPID.
					Side of trade (original side reported or amended
					side).
					Valid values:
					1 = Buy
	= 4			Ň	
$\rightarrow$	54	Side		Y	
$\rightarrow$	37	Orde	erID	Y	Required in FIX, but ignored
	450	<b>.</b>		_	Number of parties on the reporting/contra side of
$\rightarrow$	453	Parti	es/NoPartyIDs	F	the trade
					Either on MPID or a Clearing Account number or
					"C" for customer on the contra side. PartyID may
$\rightarrow$	$\rightarrow$	448	PartvID	F	be amended
, 	, 			+ '	Valid values :
					C = Generally accepted market participant
$\rightarrow$	$\rightarrow$	447	PartyIDSource	F	identifier (e.g. FINRA mnemonic)
		1	-		Valid values:
					1 = Executing Firm
					14 = Giveup Firm
					17 = Contra Firm
$\rightarrow$	$\rightarrow$	452	PartyRole	F	83 = Clearing Firm Number
		000			PartySubID is only allowed for PartyRole = 1 or
$\rightarrow$	$\rightarrow$	802	NoPartySubIDs		17.
$\rightarrow$	$\rightarrow$	$\rightarrow$	523PartySubID		Sub-identifier. Branch office of executing/contra

							firm (Branch Sequence Number/Contra Branch
							Sequence Number). May be amended.
							Contra PartySubID may only be entered on
							Type of PartySubID (523) value
							Valid values:
$\rightarrow$	$\rightarrow$	$\rightarrow$	803	PartySubIDT	уре		24 = Department
							Original or amended capacity of the
							reporting/contra party. Valid values:
							A = Agency R = Principal
							R = Riskless Principal
							Required on the reporting side. Contra side is
$\rightarrow$	528	Orde	rCap	acity		F	required on all Locked-In trades.
							Memo field may be amended. Not to exceed 10
$\rightarrow$	58	Text					characters.
		~					OATS Identifier (original or amended) Not to
$\rightarrow$	376	Com	plian	ceID			exceed 20 characters.
9854	Override	Flag					Original value or amended value.
22013	Locked	nIndi	cator				Original value or amended value.
22005	Special	Proce	essing	gFlag			Original value or amended value.
22001	TradeM	odifie	er1				Original value or amended value.
							Original value or amended value.
955	Second	orv/Tr	dTva				Can only be submitted when Tag 22001
22002	TradeM	aryrr odifia	uryp vr2				
22003	TradeM	odific	r/				
22004	TradeM	odific	:14 .r/Tir	20			
22016	Tadelvi	oune	91411	ne			Execution time (in LTC/CMT). 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
	_						<b>UTC/GMT</b> ) by the participant firm to the
22009	Prepara	tion I	ime				Exchange. Format: HH:MM:SS.sss
							submission (in <b>UTC/GMT</b> ). Format:
22022	Service	Burea	auPre	epTime			HH:MM:SS.sss
81	Process	Code	 				Original value or amended value
		5500	-				Original value or amended value.
527	Seconda	aryEx	<u>kec</u> ID	)			Up to 20 characters.
							As submitted by the participant firm on the
							correction.
050	Dublick	- المع	diaat	o.r		-	Y = Report by rules
002			uicat	UI		Г	
22024	SnortSa	ieind	icato	۲ <u>ــــــــــــــــــــــــــــــــــــ</u>			Original value or amended value.
9277	Related	Mark	etCe	nter			Original value or amended value.
1	Standar	d Fra	uler			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	SecondaryFirmTradeID		20 characters.
		_	Control Date of the trade being matched against the
22011	ControlDate	F	Accept (the executing/reporting side).
4000		_	FINRA Control Number of the trade being matched
1003	IradeID	F	against the Accept (the executing/reporting side).
107	TradaBapartTrapaTupa		Valid Values:
407	Падекеропттальтуре	Г	
856	TradeReportType	F	2 – Accept
030		1	Indicates if the trade canture report was previously
			reported to the counterparty
			Valid values:
570	PreviouslyReported	Y	N = No
55	Symbol	F	Ticker symbol from the matched trade.
65	SymbolSfx		Symbol suffix from the matched trade.
			Trade Volume as number of shares from the matched
32	LastQty	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
			Report occurred (in <b>UTC/GMT</b> ).
60	TransactTime	Y	Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapRptSideGrp/NoSides	Y	Set value to 1 (One side for the Accepting party).
			Side of trade from the Accepting party's perspective.
			Valid values:
	E4Sido	v	1 = Buy
$\rightarrow$		T V	
$\rightarrow$		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
$\rightarrow$	$\rightarrow$ 448PartyID	F	an MPID or a Clearing Account number.
			Valid Values:
_		F	C = Generally accepted market participant identifier (e.g. EINRA mnemonic)
		-	Valid values:
			17 = Contra Firm
$\rightarrow$	$\rightarrow$ 452 PartyRole	F	83 = Clearing Firm Number
$\rightarrow$	$\rightarrow$ 802NoPartySubIDs	1	PartySubID is only allowed for PartyRole = 1 or $17$
$\rightarrow$	$\rightarrow$ $\rightarrow$ 523 Party SubID		Sub-identifier, Branch office of contra firm (Branch

						Sequence Number). Up to 8 characters allowed.
$\rightarrow$	$\rightarrow$	$\rightarrow$	803	PartySubIDType		Type of PartySubID (523) value Valid values: 24 = Department
	528	Orde	erCar	pacity	F	Designates the capacity of the accepting party. Valid values: A = Agency P = Principal R = Riskless Principal
$\rightarrow$	376	76ComplianceID				OATS Identifier. Not to exceed 20 characters.
			•			S = Sold Short E = Sold Short Exempt
22024	Shoi	tSale	əIndio	cator		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, the submission will be rejected.
	Stan	dard	Trai	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 must 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
			Valid values:
570	PreviouslyReported	Y	N = No
55	Symbol	F	Ticker symbol from the declined trade.
65	SymbolSfx		Symbol suffix from the declined trade.
			Trade Volume as number of shares from the declined
32	LastQty	Y	trade.
31	LastPx	Y	Trade Price from the declined trade.
75	TradeDate	Y	Execution Date from the declined trade. Interpreted as an 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.
			Side submitted on the alleged trade.
			Valid values:
	54 Side	v	i = Buy 2 - Sell
	37OrderID	V V	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
107	DKBaaaan		F = Calculation difference
121	UNREASON		

			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 C		Comment	
	Standard Header	Y	MsgType = AE	
			Used to identify the type of acknowledgement.	
			Value "OREN" identifies a Trade Capture Report	
			accepted by FINRA.	
			Value "OCEN" identifies the version forwarded to the	
1011	MessageEventSource	F	specified clearing firm of the submitting firm	
571		Y	Identifier assigned by FINRA (not Control Number).	
572		F	TradeReportID from inbound TCR	
1041	FirmTradeID		FirmTradeID from inbound TCR	
1042	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound TCR	
1042			ControlDate assigned by FINRA on accepted trade	
22011	ControlDate	F	report. Format: YYYYMMDD.	
			Control Number assigned by FINRA on accepted trade	
1003	TradeID	F	report. 10 digits, starting with the value "5".	
			Valid values:	
487	TradeReportTransType	F	0 = New	
956	TradaPapartTypa		Valid values:	
000	Падекероптуре	Г	Will always be set to:	
570	PreviouslyReported	Y	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.	
			Time the transaction represented by this Trade Capture	
			Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-	
60	TransactTime	Y	HH:MM:SS.sss	
64	SettIDate		SettlDate from inbound TCR.	
22030	ReportingObligation		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.
$\rightarrow$	453 Parties/NoPartyIDs			oPartyIDs	F	Parties/NoPartyIDs from inbound TCR.
$\rightarrow$	$\rightarrow$	→ 448PartvID			F	PartyID from inbound TCR.
						Will always be set to:
			<b>.</b> .	100	_	C = Generally accepted market participant identifier (e.g.
$\rightarrow$	$\rightarrow$	447	Party	/IDSource		
$\rightarrow$	$\rightarrow$	452	Party		F	PartyRoles from Indound TCR.
$\rightarrow$	$\rightarrow$	802				NoPartySubiDs from Inbound TCR.
$\rightarrow$	$\rightarrow$	$\rightarrow$	523	PartySubID		PartySubID from inbound TCR.
$\rightarrow$	$\rightarrow$	$\rightarrow$	803	PartySubIDType	_	PartySubIDType from inbound TCR.
$\rightarrow$	528	Orde	rCap	acity	F	OrderCapacity from inbound TCR.
$\rightarrow$	58	Text				to contra party on Allege confirmation (ORAL).
$\rightarrow$	376ComplianceID			ceID		ComplianceID from inbound TCR.
9854	OverrideFlag					OverrideFlag from inbound TCR.
22013	LockedInIndicator			ator		LockedInIndicator from inbound TCR.
22005	SpecialProcessingFlag			singFlag		SpecialProcessingFlag from inbound TCR.
22001	TradeModifier1			1		TradeModifier1 from inbound TCR.
855	SecondaryTrdType			Туре		SecondaryTrdType from inbound TCR.
22003	TradeModifier3			3		TradeModifier3 from inbound TCR.
						Single character Time Modifier determined by FINRA based on comparing Execution Time (22007) against the
						time FINRA receives the inbound TCR.
						Valid values:
						7 = Executed outside normal market hours and reported
						late
						U = Executed outside normal market hours and reported
22020	FINRATradeModifier3			lodifier3		late
22004	TradeModifier4			4		TradeModifier4 from inbound TCR.
22018	TradeModifier4Time			4Time		TradeModifier4Time from inbound TCR.
22007	ExecutionTime			Э	F	ExecutionTime from inbound TCR.
22009	PreparationTime			ne		PreparationTime from inbound TCR.
22022	ServiceBureauPrepTime			JPrepTime		ServiceBureauPrepTime from inbound TCR.
81	ProcessCode					ProcessCode from inbound TCR.
527	Seco	ondar	уЕхє	ecID		SecondaryExecID from inbound TCR.
577	ClearingInstruction			ction	F	ClearingInstruction from inbound TCR.
852	PublishTrdIndicator			icator	F	PublishTrdIndicator from inbound TCR.
22024	Shor	tSale	Indic	cator		ShortSaleIndicator from inbound TCR.
9277	Rela	tedM	arke	tCenter		RelatedMarketCenter from inbound TCR.
						Indicates whether or not this message is a drop copy of
				another message.		
						Y = Yes
797	CopyMsgIndicator			ator		N = No (default value)
	Standard Trailer			er	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	Y	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.
			Value "OCAL" identifies the version forwarded to the
1011	MessageEventSource	F	specified clearing firm of the alleged firm.
571	TradeReportID	Y	Identifier assigned by FINRA (not Control Number).
1042	SecondaryFirmTradeID		SecondaryFirmTradeID from inbound TCR.
			ControlDate assigned by FINRA on accepted trade
22011	ControlDate	F	report. Format: YYYYMMDD.
			Control Number assigned by FINRA on accepted trade
1003	TradeID	F	report. 10 digits, starting with the value "5".
			Valid values:
487	TradeReportTransType	F	0 = New
050	Trada Danast Turna	-	Valid values:
820	Гадекероптуре	Г	I = Allege
570	PreviouslyReported	v	$N = N_0$
1015		· ·	AsOfIndicator from inbound TCR
55	Symbol	F	Symbol from inbound TCR
65	SymbolSfx	-	Symbol Sty from inbound TCR
32	LastOty	Y	LastQtv from inbound TCR
31	LastPx	Y	Lastex from inbound TCR
423	PriceType	F	PriceType from inbound TCR
9822			ClearingPrice from inbound TCR
75	TradeDate	Y	TradeDate from inbound TCR
10			Time the transaction represented by this Trade Capture
			Report occurred (in UTC/GMT). Format: YYYYMMDD-
60	TransactTime	Y	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.
$\rightarrow$	37OrderID	Y	Required in FIX, set to NONE.
$\rightarrow$	453 Parties/NoPartyIDs	F	Parties/NoPartyIDs from inbound TCR.
$\rightarrow$	→ 448PartyID	F	PartyID from inbound TCR.
			Will always be set to:
			C = Generally accepted market participant identifier (e.g.
$\rightarrow$	$\rightarrow$ 447PartyIDSource	F	FINRA mnemonic)
$\rightarrow$	$\rightarrow$ 452 PartyRole	F	PartyRoles from inbound TCR.

$\rightarrow$	$\rightarrow$	802	NoP	artySubIDs		NoPartySubIDs from inbound TCR.
						PartySubID from inbound TCR. Contra PartySubID only
$\rightarrow$	$\rightarrow$	$\rightarrow$	523	PartySubID		on Locked In (AGU/QSR) trades.
$\rightarrow$	$\rightarrow$	$\rightarrow$	803	PartySubIDType	9	PartySubIDType from inbound TCR.
		<b>.</b> .	-		_	OrderCapacity from inbound TCR. Contra OrderCapacity
$\rightarrow$	528	Orde	erCap	bacity	F	only on Locked In (AGU/QSR) trades.
$\rightarrow$	376	Com	plian	iceID		ComplianceID from inbound TCR.
9854	Ove	rideF	-lag			OverrideFlag from inbound TCR.
22013	Lock	edIn	Indic	ator		LockedInIndicator from inbound TCR.
22005	Spec	cialPr	roces	ssingFlag		SpecialProcessingFlag from inbound TCR.
22001	Trad	eMo	difier	1		TradeModifier1 from inbound TCR.
855	Seco	ondar	ryTrd	Туре		SecondaryTrdType from inbound TCR.
22003	Trad	eMo	difier	3		TradeModifier3 from inbound TCR.
						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
22020	FINF	RATra	adeN	1odifier3		late
22004	Trad	eMo	difier	4		TradeModifier4 from inbound TCR.
22018	Trad	eMo	difier	4Time		TradeModifier4Time from inbound TCR.
22007	Exec	cutior	Tim	e	F	ExecutionTime from inbound TCR.
22009	Prep	arati	onTii	me		PreparationTime from inbound TCR.
22022	Serv	iceB	urea	uPrepTime		ServiceBureauPrepTime from inbound TCR.
81	Proc	essC	code	•		ProcessCode from inbound TCR.
527	Seco	ondar	yExe	ecID		SecondaryExecID from inbound TCR.
577	Clea	ringli	nstru	ction	F	ClearingInstruction from inbound TCR.
852	Publ	ishTr	dInd	icator	F	PublishTrdIndicator from inbound TCR.
9277	Rela	tedM	larke	tCenter		RelatedMarketCenter from inbound TCR.
						Indicates whether or not this message is a drop copy of
						another message.
						Valid values:
707	C	Mea	مالم مرا	otor		r = res N = No (default value)
	11 ( )/ )		11111111		-	
22007 22009 22022 81 527 577 852 9277	Prep Serv Proc Secc Clea Publ Rela	cution aratio iceBi essC ondar ringli ishTr tedM	nTim onTin ureau code ryExe nstru dInd larke	e me uPrepTime ecID ction icator itCenter	F F F	ExecutionTime from inbound TCR. PreparationTime from inbound TCR. ServiceBureauPrepTime from inbound TCR. ProcessCode from inbound TCR. SecondaryExecID from inbound TCR. ClearingInstruction from inbound TCR. PublishTrdIndicator from inbound TCR. RelatedMarketCenter from inbound TCR. Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes N = No (default value)

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

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.		
			Value "OCCX" or "OCBX" identifies the versions		
			forwarded to the specified clearing firms of both		
1011	MessageEventSource	F	parties of the trade.		
			Identifier assigned by FINRA (not Control		
571	TradeReportID	Y	Number).		
			To the reporting party, this field is set to the		
			reporter's previous TradeReportID. To the contra		
570	Trada Danart Dafi D		party, this field is set to the TradeReportID from		
572		F	the previous allege message (ORAL).		
1041	Firm I radelD		Client Trade Identifier from inbound Trade Cancel.		
22011	ControlDate	F	ControlDate from inbound Trade Cancel.		
4000	TradalD		I radeID from inbound I rade Cancel. (FINRA		
1003		F	Control Number).		
107		E	Valid values:		
407			Valid values:		
			6 = Cancel (on ORCX/OCCX)		
			$7 = \text{Break} \text{ (on } \frac{\text{CP cancel of accepted}}{\text{CP cancel of accepted}}$		
856	TradeReportType	F	tradesORBX/OCBX)		
			Will always be set to:		
570	PreviouslyReported	Y	N = No		
			LastQty from inbound Trade Cancel.		
			NOTE: on a Cancel of a trade report submitted		
32	LastOty	v	always be returned		
52		1	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		
31	LastPx	Y	always be returned.		
			I radeDate from inbound I rade 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.		

			because both parties' Cancel requests have
			not been received.
			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 commin), valid values. B = only buyer has broken
			S = only seller has broken
			X = both buyer and seller have broken
	9856	BreakIndicator	L = broken through market center (used only in the event FINRA breaks the trade).
			If the trade was matched against the contra party's
			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.
	22027	MatchControlDate	reports.
			If the trade was matched against the contra party's
			trade report, then this tag will contain the Control
			Numerican of the country month is the demonstration
			Number of the contra party's trade report.
			Number of the contra party's trade report. If the contra party accepted the executing reporting
			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 pon-matched trade
	22028	MatchTradeID	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 reports.
	22028	MatchTradeID	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 reports. Indicates whether or not this message is a drop
	22028	MatchTradeID	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 reports. Indicates whether or not this message is a drop copy of another message.
·	22028	MatchTradeID	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 reports. Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes
	<u>22028</u> 797	MatchTradeID CopyMsgIndicator	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 reports. Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes N = No (default value)

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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 Red		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.
1042	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.
1003	TradeID	F	TradeId generated by FINRA on the accepted Trade Reversal.
22029	ReferenceReportingFacility		ReferenceReportingFacility from inbound Trade Reversal.
487	TradeReportTransType	F	Valid values: 4 = Reverse
856	TradeReportType	F	Valid values: 0 = Submit
570	PreviouslyReported	Y	Will always be set to: N = No
1015	AsOfIndicator	F	Must be set to 1 on Reversals. 1 = true
55	Symbol	F	Symbol from inbound Trade Reversal
65	SymbolSfx		SymbolSfx from inbound Trade Reversal
32	LastQty	Y	LastQty from inbound Trade Reversal.
31	LastPx	Y	LastPx from inbound Trade Reversal
423	PriceType	F	PriceType from inbound Trade Reversal.
9822	ClearingPrice		ClearingPrice from inbound Trade Reversal.
75	TradeDate	Y	TradeDate from inbound Trade Reversal
60	TransactTime	Y	Time the transaction represented by this Reversal occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
64		_	SettiDate from inbound Trade Reversal
22030			ReportingObligation from inbound I rade Reversal.
552	I racaproprovides	Υ	I racapkptSideGrp/NoSides from inbound I rade

					Reversal.
$\rightarrow$	54Side			Y	Side from inbound Trade Reversal
$\rightarrow$	37OrderID			Y	Required in FIX, set to NONE.
$\rightarrow$	453Parties/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
$\rightarrow$	$\rightarrow$	447	PartyIDSource	F	identifier (e.g. FINRA mnemonic)
$\rightarrow$	$\rightarrow$	452	PartyRole	F	PartyRoles from inbound Trade Reversal.
$\rightarrow$	$\rightarrow$	802	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	erCapacity	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	ride	Flag		OverrideFlag from inbound Trade Reversal
22013	Lock	edIn	Indicator		LockedInIndicator from inbound Trade Reversal
22005					SpecialProcessingFlag from inbound Trade
22005	SpecialProcessingFlag			Reversal	
22001					
855	SecondaryTrdType				Secondary I rd I ype from inbound Trade Reversal.
22003	TradeModifier3				TradeModifier3 from inbound Trade Reversal
22004	Irad	eMo	difier4		IradeModifier4 from inbound Irade Reversal
22018	Trad	eMo	difier41ime		TradeModifier4Time from inbound Trade Reversal.
22007	Exec	cutior	nTime	F	ExecutionTime from inbound Trade Reversal
22009	Prep	arati	onTime		PreparationTime from inbound Trade Reversal
22022	ServiceBureauPrepTime		ureauPrepTime		ServiceBureauPrepTime from inbound Trade Reversal.
81	Proc	essC	Code		ProcessCode from inbound Trade Reversal
527	Seco	onda	ryExecID		SecondaryExecID from inbound Trade Reversal.
577	Clea	ringl	nstruction	F	ClearingInstruction from inbound Trade Reversal
852	Publ	ishTı	rdIndicator	F	PublishIndicator from inbound Trade Reversal
22024	Shor	tSale	eIndicator		ShortSaleIndicator from inbound Trade Reversal
					RelatedMarketCenter from inbound Trade
9277	Rela	tedN	larketCenter		Reversal
					Indicates whether or not this message is a drop copy of another message. Valid values: Y = Yes
/9/	Copy	VIVISC			N = NO (default value)
	Standard 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		F	Price I ype from inbound Trade Correction.
9822			ClearingPrice from inbound Trade Correction.
/5	IradeDate	Y	I radeDate from inbound I rade Correction.
60	TransactTime	Y	Capture Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
64	SettIDate		SettlDate from inbound Trade Correction.
22030	ReportingObligation	F	ReportingObligation from inbound Trade Correction.
552	TrdCapRptSideGrp/NoSides	Y	TrdCapRptSideGrp/NoSides from inbound Trade Correction.

$\rightarrow$	54Side		Y	Side from inbound Trade Correction.	
$\rightarrow$	37OrderID			Y	Required in FIX, set to NONE.
$\rightarrow$	453Parties/NoPartyIDs			F	Parties/NoPartyIDs from inbound Trade Correction.
$\rightarrow$	$\rightarrow$	448	PartyID	F	PartyID from inbound Trade Correction.
	$\rightarrow$	447	PartvIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
$\rightarrow$	$\rightarrow$	452	PartvRole	F	PartyRoles from inbound Trade Correction.
$\rightarrow$	$\rightarrow$	802	NoPartvSubIDs	-	NoPartySubIDs from inbound Trade Correction.
$\rightarrow$	$\rightarrow$	$\rightarrow$	523PartySubID		PartySubID from inbound Trade Correction
$\rightarrow$	$\rightarrow$	$\rightarrow$	803PartySubIDType		LastQtv from inbound Trade Correction.
$\rightarrow$	528	Orde	erCapacity	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	Flag	1		OverrideFlag from inbound Trade Correction.
22013	Lockedl	nIndi	cator		LockedInIndicator from inbound Trade Correction.
22005	Special	Proce	essingFlag		SpecialProcessingFlag from inbound Trade Correction.
22001	TradeM	odifie	er1		TradeModifier1 from inbound Trade Correction.
855	Seconda	aryTr	dType		SecondaryTrdType from inbound Trade Correction.
22003	TradeM	odifie	er3		TradeModifier3 from inbound Trade Correction.
22020					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	ime		PreparationTime from inbound Trade Correction.
22022	Service	Burea	auPrepTime		ServiceBureauPrepTime from inbound Trade Correction.
81	Process	Code	Э		ProcessCode from inbound Trade Correction.
527	Seconda	aryEx	kecID		SecondaryExecID from inbound Trade Correction.
577	ClearingInstruction		F	ClearingInstruction as determined by the ORF system.	
852	Publish	FrdIn	dicator	F	PublishTrdIndicator from inbound Trade Correction.
22024	ShortSa	leInc	licator		ShortSaleIndicator from inbound Trade Correction.
9277	Related	Mark	etCenter		RelatedMarketCenter from inbound Trade Correction.
797	СоруМз	gInd	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
	Standar	d He	ader	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	Date		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
570	Previous	slyRe	eported	Y	Will always be set to: N = No
55	Symbol		•	F	Symbol from inbound Trade Accept.
65	SymbolSfx				SymbolSfx from inbound Trade Accept.
32	LastQty			Y	LastQty from inbound Trade Accept.
31	LastPx			Y	LastPx from inbound Trade Accept.
75	TradeDate			Y	TradeDate from inbound Trade Accept.
60	TransactTime			Y	Time the transaction represented by this Trade Capture Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
552	TrdCapl	RptSi	ideGrp/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.
$\rightarrow$	→	447	PartyIDSource	F	Will always be set to: C = Generally accepted market participant identifier (e.g. FINRA mnemonic)
$\rightarrow$	$\rightarrow$	452	PartyRole	F	PartyRoles from inbound Trade Accept.
$\rightarrow$	$\rightarrow$	802	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.
$\rightarrow$	376	Com	plianceID		ComplianceID from inbound Trade Accept.

22024	ShortSaleIndicator		ShortSaleIndicator from inbound Trade Accept.
			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	

## 5.2.7 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
050		_	Valid values:
856	I radeReport I ype	F	3 = Decline
570	PreviouslyReported	v	$N = N_0$
55	Symbol	F	Symbol from inbound Trade Decline
65	SymbolSfx		Symbol Stx from inbound Trade Decline
32	LastOty	Y	LastQtv from inbound Trade Decline
31	LastPx	Ŷ	LastPx from inbound Trade Decline.
75	TradeDate	Ý	TradeDate from inbound Trade Decline.
60	TransactTime	Y	Time the transaction represented by this Trade Capture Report occurred (in <b>UTC/GMT</b> ). Format: YYYYMMDD-HH:MM:SS.sss
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
/9/			IN = INO (default value)
	Standard I railer	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").
487	TradeReportTransType	F	Valid values: 3 = Release
856	TradeReportType	F	Valid values: 2 = Accept
573	MatchStatus	F	Valid values: 0 = Matched
570	PreviouslyReported	Y	Will always be set to: 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

. Format:
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side of the
PartyRole.
ant identifier
Obligation)
ade. Valid ə.
a drop

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.
			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:
			2 = Accept
			3 = Decline
			5 = I rade Correction
056	TradeDepartTura	-	6 = I rade Report Cancel or Contra Party
000	Падекероптуре	Г	Diedk This field signals whether the TCP was
			acconted or rejected
			Valid values:
150	EvecTure	v	8 – Rejected
130		1	Valid values:
030	TradeRotStatus	F	1 – Rejected
55	Symbol	F	Ticker symbol submitted
65	Symbol		Symbol suffix, if submitted
05	Symbolon		Reason code Trade Canture Report was
751	TradeReportRejectReason	Y	rejected by FINRA See section 6.3
101			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
			Number of the input message, if one
22015	BranchOfficeCodeSequenceNumber		was submitted.
	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.

<b>T</b>		FIX	G
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

48	PRICE REQUIRED
50	INVALID PUBLISH INDICATOR
55	INVALID SLD TIME
59	INVALID PUBLISH INDICATOR FOR PROCESS CODE
62	INVALID SYMBOL
63	INVALID SYMBOL SUFFIX
67	INVALID CLEARING NUMBER
68	SECURITY NOT FOUND
70	NO RECORDS FOUND
71	RPID MISMATCH
72	TRADE NOT FOUND
73	TRADE NOT MATCH ELIGIBLE
74	INVALID DK REASON
75	DK NOT ALLOWED AFTER AUTO LOCK TIME
76	AFFIRM NOT ALLOWED AFTER AUTO LOCK TIME
77	INVALID MATCH CONTROL DATE
78	INVALID VOLUME ENTERED
79	CONTRA TRADE NOT FOUND
80	INVALID MATCH CONTROL ID
81	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
108	INVALID BRANCH SEQUENCE NUMBER
109	INVALID CONTRA BRANCH SEQUENCE NUMBER
110	INVALID AS-OF DATE
111	INVALID REVERSAL FLAG
112	NOT AN OPEN TRADE
113	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 LIP REQUIRED
150	EXPLICIT FEE MUST BE SUBMITTED FOR CLEARING
152	EXPLICIT FEE NOT ALLOWED
152	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	OUANTITY REOUIRED
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
	INVAL ID DEEDADATION 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: nnnnnnnnnnnnn (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). 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 (or this tag may be omitted)
		Y = Position Transfer (AUTHORIZATION REQUIRED)
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
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.
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 (' $v' = decimal point$ ):
		Decimal Unit (PriceType = 98): 9999999999999
		Contract Amount (Price Type = 99): 9999999999999
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):

Tag	Field	Description
		Decimal Unit (PriceType = 98): 999999999999999
		Contract Amount (PriceType = 99): 999999999999999
22001	TradeModifier1	Settlement modifiers. Valid values are:
		C = Cash (same day) settlement
		N = Next Day settlement
		R = Seller's Option
		0 = regular (T+3) settlement ( <i>or tag may be omitted</i> )
855	SecondaryTrdType	Required days to settlement when Trade Modifier $1 = R$ . Valid values are
	(aka Seller's Option	02, 04 - 60, otherwise this tag must be omitted.
	Days)	
22003	TradeModifier3	Time modifiers to be submitted by the reporting party identifying
		Extended hours/Late sale conditions, when applicable, otherwise the tag
		may be omitted. Valid values are:
		T = Trade executed outside normal market hours
		Z = Trade executed during normal market hours and reported late
		U = Trade executed outside normal market hours and reported late
		Note: FINRA will also determine and generate time modifiers and append
		accordingly 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
22010		R = Trade price unrelated to the current market
22018	TradeModifier4Time	The time associated with a Prior Reference Price or Stopped Stock trade
		(required if Trade Modifier $4 = S$ or P), otherwise the field must be left
		blank.
		Format: HHIMINDSSSS.
		Note: The reporting of this field is subject to SEC approval of FINKA Pule Filing SP_2013_50
528	OrderCanacity	A one character Canacity Indicator field denoting whether the firm is
528	OrderCapacity	A one character Capacity indicator field denoting whether the firm is acting as "D" for principal "A" for agancy or "D" for risklass principal on
		this trade Dequired for the Executing Firm side Dequired for the Contra
		Firm side on Locked In (AGU/OSR) 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 Accent 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
22030	Reportingoongation	submission from the member firm with the trade report represents the
		defined under FINRA Rule 6622(b). Valid values are:
		Y = Trade reported by firm with the reporting obligation
		N = Trade reported by firm that does not have the obligation
1015	AsOfIndicator	This field is used to denote whether the trade is an As-Of trade entry (i.e.
1015		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.

Tag	Field	Description
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 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
		represent the execution based on Eastern Time, but entered in UTC
		(CMT) under EIX 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 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
		an execution they entered into. For OSR trade reports, the RPID and CPID

Tag	Field	Description
		cannot be the same and only the Contra Party Give Up field can be used.
		A Uniform Service Agreement must be in place in order for firms to
		submit Locked In trade reports.
376	ComplianceID	Required by FINRA on all trade reports where either the reporting or
	(aka OATS Identifier)	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. Allowed on Locked-In (AGU/QSR), Cross
		(Side = 8), and Customer (Contra Firm MPID = C) trade entries. Allowed
		on Trade Accepts. Allowed on trades where the contra party will not
		submit a matching trade or trade accept.
64	SettlDate	Optional field. Date when the trade settles. YYYYMMDD format.
577	ClearingInstruction	Indicates if the trade should be forwarded to NSCC for clearing.
	C	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	This field indicates if the trade falls under any of the following conditions:
	(aka Special Instruction	7 = Special trade
	Indicator)	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)
		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	Used to discretely tie a Media eligible trade to one or more non-Media
	(akaTrade Reference	eligible trades, e.g., same ref number used on a Media trade and on a
	Number)	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 (FirmID) to Cancel or Correct a

Tag	Field	Description
		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	When a trade is submitted to ORF and accepted, the system will assign a
	(aka Control Number)	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	Used if a participant transitions from one FINRA Reporting Facility to
	Facility	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.

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

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

<u>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.</u>

# 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.

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

<u>All Cross trades must be reported as Reporting Obligation = Y, and not for Clearing. Publish Indicator may</u> be set to Y or N. On Cross trades, the reporting party must 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
<b>Obligation</b>	<u>22030=Y</u>	always be set to "Y".
Number of Sides	<u>552=2</u>	Must always be set to "2" to identify the buy and sell sides.
Side	<u>54=1</u>	Buy side group.
Number of Parties	<u>453=2</u>	Indicates there are 2 parties reported on the buy side.
Party ID	<u>448=EFGH</u>	First party identified as EFGH.
Party Role	<u>452=17</u>	EFGH is the Contra firm.
Party ID	448=5678	Second party identified as 5678.
Party Role	<u>452=83</u>	5678 is the clearing firm for EFGH.
Order Capacity	<u>528=A</u>	EFGH is acting in an Agent capacity.
Side	<u>54=2</u>	Sell side group.
Number of Parties	<u>453=3</u>	Indicates there are 3 parties reported on the sell side.
Party ID	<u>448=EFGH</u>	First party on the sell side identified as EFGH.
Party Role	<u>452=1</u>	EFGH is the Executing (reporting) firm.
Party ID	<u>448=IJKL</u>	Second party identified as IJKL.
Party Role	<u>452=14</u>	IJKL is the Giveup Firm, i.e., EFGH is giving up IJKL.
Party ID	448=1234	Third party identified as 1234.
Party Role	<u>452=83</u>	1234 is the clearing firm for IJKL.
Order Capacity	<u>528=P</u>	IJKL is acting in a Principal capacity.
Locked In		
Indicator	<u>22013=A</u>	Indicates the trade report is an AGU trade.
<u>Clearing</u>		
Instruction	<u>577=0</u>	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.

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

<u>Give up trades may be reported as Reporting Obligation = Y or N depending on the reporting responsibility</u> of the Giveup firm. Giveup trades can be set to Clear or not, can be set to Publish or not. The Giveup firm's <u>Capacity must be submitted</u>, 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 giveup firms on a trade report.

## 9.7 QSR Trades

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

- 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.

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

### <u>9.8 Step In / Step Out Trades</u>

#### 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.

<u>Field</u>	Tag=Value	Description
Reporting		Firm MNOP as the part stepping out indicates it is the firm
<b>Obligation</b>	<u>22030=Y</u>	with the responsibility to report.
Number of Sides	<u>552=2</u>	Must always be set to "2" to identify the buy and sell sides.
Side	<u>54=2</u>	Sell side group.
Number of Parties	<u>453=2</u>	Indicates there are 2 parties reported on the sell side.
Party ID	448=MNOP	First party identified as MNOP.
Party Role	<u>452=1</u>	MNOP is the Executing/reporting firm.
Party ID	448=1234	Second party identified as 1234.
Party Role	<u>452=83</u>	1234 is the Clearing firm for MNOP.
Order Capacity	<u>528=P</u>	MNOP is acting in a Principal capacity.
Side	<u>54=1</u>	Buy side group.
Number of Parties	<u>453=1</u>	Indicates there is 1 party reported on the buy side.
Party ID	<u>448=QRST</u>	First party on the sell side identified as QRST.
Party Role	452=17	QRST is the Contra firm.
Process Code	<u>81=3</u>	Indicates the trade report is a Step Out trade.
<u>Clearing</u>		
Instruction	<u>577=0</u>	Send trade to clearing.
Publish Indicator	<u>852=N</u>	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	<ul> <li>Revised throughout document that clearing number is not a required field and if not submitted, will default to firm's primary clearing relation.</li> <li>In section 5.1.1 tag 22013, removed statement that all Locked-In trades must be submitted as sells.</li> <li>Removed tags 22002 (TradeModifier2) and 829 (TrdSubType) from all in/out messages (not applicable to ORF).</li> <li>Tag 577 (ClearingInstruction) – added note to Comments that tag must be set to '0' on all AGU trades.</li> <li>Tag 9277 (RelatedMarketCenter) – revised valid values for this field.</li> <li>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).</li> <li>Sections 5.2.1 (OREN), 5.2.4 (ORHX) and 5.2.5 (ORCR) – added tag 22031 (FINRATradeModifier4).</li> <li>Added section 5.2.2, ORAL Allege message confirmation.</li> <li>Section 5.2.3 (ORCX) – redefined Comments on various tags.</li> </ul>		
1.2	11/8/2013	<ul> <li>Section 5.2.8 (ORMA) – removed tags 572 and 881.</li> <li>Revised throughout document that ORF will retain 4 rolling business days (T date through T-3) of online trade reports, instead of 5.</li> <li>Added Acknowledgement type codes for the Clearing versions of confirmations that can be sent to reporting/contra parties' clearing firms.</li> <li>Added Tag 572 (TradeReportRefID) to Reject messages.</li> <li>Added Tag 1041 (FirmTradeID) to most messages.</li> <li>For Cross trades, amended numb of sides (Tag 552) to "2".</li> <li>Expanded Tag 81 (ProcessCode), aka Special Instruction Indicator, to support values for reporting Step Ins, and Step Outs with Section 3 Fee reports.</li> <li>Removed Tag 577 (ClearingInstruction) from Cancels and Corrections.</li> <li>Added Tag 1042 (SecondaryFirmTradeID) to Accept messages.</li> <li>Removed Tag 22026 (PriorDayClearingInstruction) from all messages.</li> <li>Removed Tag 22031 (FINRATradeModifier4) from all messages.</li> <li>Revised values for Tag 9857 (LockedInMethod) in the confirmed Match message.</li> <li>Added section 6.3 to list Reject reasons and codes.</li> </ul>		
1.3	3/4/2014	<ul> <li>Added tags 115 and 116 to inbound header for OBO reporting (sect. 3.13.1)</li> <li>Added tags 128 and 129 to outbound header for OBO reporting (sect. 3.13.2)</li> <li>Removed Party Role of "Entering Firm" and value "7" throughout document</li> <li>Clarified the definition and use of the Reporting Obligation field (tag 22030) in sect. 4.5.8</li> <li>Updated sect. 4.5.9 for service bureau reporting (using OnBehalfOf methodology)</li> <li>Renamed Party Role of "Clearing Account Number" (value 83) to "Clearing</li> </ul>		

		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.