

# Ovation Platform – DDS Trades, Positions, and Exercise and Assignment Output Guide

**OCC**

**THE FOUNDATION  
FOR SECURE  
MARKETS®**

# Ovation Platform – DDS Trades, Positions, and Exercise and Assignment Output Guide

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# Overview

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## About This Document

This guide includes information about trades, positions, exercise and assignment, and settlement activity data that OCC publishes. This document includes layout tables for the system output messages:

## DDS Output

The OCC Data Distribution Services (DDS) system transmits messages using the FIXML (Financial Information eXchange Markup Language) data formatting standard. Refer to the *Ovation Platform – DDS Output Overview Guide* for more information about the DDS system including product multiplier, CFI, and trade source codes. The guide is available on the Theocc.com website.

If you have questions or comments, please contact your Member Services representative or the OCC Help Desk at one of the following:

- 800-621-6072 or 800-544-6091 (U.S.)
- 800-424-7320 (Canada)
- [memberservices@theocc.com](mailto:memberservices@theocc.com)

## What's New with the Ovation Platform?

The following table lists changes for trades, positions, exercise and assignment, and settlement activity DDS messages in the Ovation platform compared to the ENCORE system.

Message	Change	Description
Outbound messages	Order of tags within a message	The ordering of tags within a message may be different in the Ovation platform. Firms should use a standard XML parser and not expect a file to be parsed with a specific order.
	Timestamp offset	For messages with a timestamp: In the Ovation platform, execution times and transaction times display in Coordinated Universal Time (UTC) with no offset. In the ENCORE system, post trade and collateral messages have an offset of 5 hours.
	Truncation	Although many attributes will be truncated to 100, OCC cannot guarantee a maximum length on FIXML attributes. Receiving systems must perform their own truncation if OCC publishes tags with a greater length than desired.
Adjusted Positions	Transmission decommissioned	The Intraday Adjusted Positions message is no longer supported.
	Business date	In ENCORE, adjusted positions were created prior to OCC rolling the business date to the next day. In Ovation, adjusted positions are done after the date roll, and therefore the business date is the next business day.
Customer Gross Margins Position	Transmission decommissioned	The Customer Gross Margins Position message is no longer supported.
Exercise and Contrary Intentions Acknowledgements	Expiring Exercise Declaration (EED) and Do Not Exercise Declaration (DNED) instructions are called contrary intentions.	Acknowledgement messages for EED and DNED are referred to as Contrary Intentions Acknowledgement messages.
	OCC no longer supports the "ALL" enumeration in the Txt tag.	Members must supply explicit quantities to OCC.
	Exercise and Contrary Intentions Acknowledgement messages include changes submitted using the user interface (GUI).	In the ENCORE system, a contrary intention or exercise does not generate a DDS message if the transaction is updated using an ENCORE screen. With Ovation, DDS acknowledgement messages are generated for GUI transactions. DDS Acknowledgment messages include new or updated quantities. An updated quantity could be a negative or positive value. If a firm modifies the quantity from 10 to 8, the quantity field is populated with -2. If a firm modifies from 10 to 12, the quantity field is populated with 2.
Give ups – (formerly Futures Allocations)	Transmission renamed	Futures Allocation messages are renamed as Give Up messages.
	Reversals are supported	Recipients must be able to process reversals, which are identified as Stat = 7 (Reversed).

Message	Change	Description
	New tags added	<p>New tags are:</p> <ul style="list-style-type: none"> <li>■ CustOrdHdlInst - Tag 1031 (FIA Execution Source Code)</li> <li>■ IndAllocID2 – Tag 989 – The IndAllocID2 is the OCC Trade ID created by a claimed give up. Depending on whether your firm is the give up or take up firm, different data will be displayed. <ul style="list-style-type: none"> <li>● For give up firms, this ID is populated with the OCC Trade ID of the trade being given up.</li> <li>● For take up firms, it will be blank while unclaimed. Once accepted, it reflects the OCC Trade ID of the newly created trade.</li> <li>● Clearing Members will use this new ID to submit further give ups and regulators/exchanges should store this to track further give ups.</li> </ul> </li> </ul>
	Tags removed	<p>The following tags have been removed from the Instrmt block:</p> <ul style="list-style-type: none"> <li>■ Amt block for Cres – Cash Residual Value</li> <li>■ Misc Fees block ID – Regulatory, Other Clearing Fees</li> </ul>
Gross Position Adjustment	Generated from Position Change Submissions (PCS)	OCC no longer supports the inbound Gross Position Adjustment post trade submission. The Gross Positions Adjustment output message only reflects activity done as a result of OCC receiving PCS information.
	Late PCS	OCC processes two cycles of PCS; the standard nightly cycle and late PCS which is submitted in the morning. The Gross Position Adjustments will reflect transactions submitted in either cycle.
Positions – Futures	Removed Issue and Stop tags for futures	The Qty block associated with delivery of issues and stops is not populated, since OCC no longer supports issues and stops.
Positions – Options	Removed Event Block and Amount Block tags for options.	Settlement date and intrinsic value for cash settled options are no longer applicable. Therefore, Evnt Block and Amt Block tags are no longer populated.
Rejected Holding Submissions	Transmission decommissioned	OCC no longer clears futures products that require holding information.
Rejected Trade Updates	New tags to support average pricing for options on futures and futures products.	<p>New tags to support average pricing are:</p> <ul style="list-style-type: none"> <li>■ AvgPxGrp – Tag 819</li> <li>■ AvgPxGrpID – Tag 1731</li> </ul>

Message	Change	Description
Trades	Contra party (Rpt Side) is no longer included on trade message.	<ul style="list-style-type: none"> <li>Clearing members: Trade messages include only the clearing member's side of the trade. If a clearing member is on both the buy and sell sides, the Ovation platform sends two Trade messages.</li> <li>Trade sources and regulatory agencies: For each matched trade, two trade messages are created with each message representing one side (buy or sell side) of the trade. Matched trades can be connected by the CSN Number (MtchID).</li> </ul>
	Tags removed from the RptSide block	<p>The following tags have been removed from the RptSide block:</p> <ul style="list-style-type: none"> <li>AllocInd – Trade allocation indicator</li> <li>Cpcty – Linkage trade type</li> <li>OrdInptDev – Linkage originating exchange</li> </ul>
	InptDev (Input Device) enumeration change for trade messages	The enumeration for real time trade messages changes from MQ to RTFX., and batch trade messages from MR to FXML.
	Pended trade messages no longer generated	OCC no longer sends trades messages for pending trades.
	New Tag 1031 (FIA Execution Source Code) for options on futures and futures.	<p>New tag is:</p> <ul style="list-style-type: none"> <li>CustOrdHdlInst - Tag 1031 (FIA Execution Source Code)</li> </ul>
	Execution times in UTC format	Execution times (TrdRegTS, tag 796) appear in UTC format, regardless of the time zone format in which OCC receives the data.
Trade Updates	Give up changes not allowed on trade updates . AllocInd removed from Trade Updates.	Changes to give ups are allowed in ENCORE on trade updates but are not allowed in the Ovation platform. To add or change a give up, submit a Give up.
	New tags to support Adding/Removing trades from an APG using trade updates	<p>Trades can be added or removed from an Average Price Group using a Trade Update</p> <p>The Average Price Indicator (AvgPxInd), (AvgPxGrp – Tag 819) and Average Price Group (AvgPxGrpID – Tag 1731) tags are used to add/remove a trade from a group.</p>
	Execution times in UTC format	Execution times (TrdRegTS, tag 796) appear in UTC format, regardless of the time zone format in which they are received.
Transfers and Adjustments	Reversals are supported	Recipients must be able to process reversals, which are identified as TransTyp = 4 (Reversal/Backout).
	Futures – Tags removed from Instrmt block	<p>The following tags have been removed from the Instrmt block:</p> <ul style="list-style-type: none"> <li>ID – Exchange symbol</li> <li>Exch – Exchange indicator</li> </ul>



Message	Change	Description
	CMTA Transfers - Exchange tag no longer applicable to CMTA Transfers.	OCC no longer supports the Exchange (Exch) tag.
	CMTA Transfers - Settlement of Commission and Clearing Fees (SCARF) decommission	OCC no longer supports the Miscellaneous Fees block.

## What Messages Are Not Changing in the Ovation Platform?

The following record layouts are not changing:

- Assignments
- Exercises
- Settlement Activity

# Messages

This guide includes information for the following DDS messages that OCC publishes to provide trades, positions, exercise and assignment, and settlement activity data.

- Trades and Trade Updates
- Rejected Trade Updates
- Transfers and Adjustments
- Positions
- Adjusted Positions
- Exercises
- Assignments
- Exercise and Contrary Intentions Acknowledgements
- Settlement Activity
- Gross Position Adjustments
- Give Ups

## Layout Formatting

Layout tables in this document use arrows to indicate component block levels.

Message Layout Legend – Component Block Level Examples	
→ Pty	One arrow precedes a component block that is one level down.
→ → Sub	Two arrows precede a component block that is two levels down.

# Trades and Trade Updates

<b>FIX Message</b>	Trade Capture Report
<b>Subscription Options</b>	Options Futures Options on futures Rejected
<b>Delivery Options</b>	Real time Batch file

## Overview

The Trade Capture Report includes trade activity including exchange trades and trade updates. OCC creates messages as trades are added, busted, backed out, rejected, or updated.

Each trade message includes one side of a trade and is available to clearing members involved in the trade, including executing and take up clearing members for a CMTA trade. If a clearing member is on both sides of the trade, the system sends them two trade messages.

## Trades and Trade Updates – Options and Options on Futures

Trades and Trade Updates – Options and Options on Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
TrdCaptRpt					
	RptID	Unique identifier for the trade	571	String	450391670
	PrevlyRpted	Previously reported indicator: <ul style="list-style-type: none"> <li>■ N – No</li> <li>■ Y – Yes (resubmitted)</li> </ul>	570	Boolean	N
	LastQty	Quantity	32	Quantity	1
	LastPx	Premium	31	Price	5.6
	TrdDt	As of date (YYYY-MM-DD)	75	LocalMktDate	2022-05-18
	TransTyp	Trade report transaction type: <ul style="list-style-type: none"> <li>■ 0 – New</li> <li>■ 1 – Cancel (bust)</li> <li>■ 4 – Reverse (backout)</li> </ul>	487	Integer	0
	RptTyp	Trade report type: <ul style="list-style-type: none"> <li>■ 2 – Accept</li> <li>■ 3 – Reject</li> <li>■ 4 – Trade update (OOF only)</li> <li>■ 8 – Defaulted</li> <li>■ 9 – Invalid CMTA</li> </ul>	856	Integer	2
	TrdTyp	Trade type: <ul style="list-style-type: none"> <li>■ 0 – Regular trade</li> <li>■ 1 – Block trade</li> <li>■ 2 – EFP</li> <li>■ 20 – Cabinet trade</li> </ul>	828	Integer	0
	TrdSubTyp	Trade sub type: <ul style="list-style-type: none"> <li>■ 0 – CMTA trade</li> </ul> If not a CMTA trade, tag is not present.	829	Integer	0
	MtchID	Trade source clearing sequence number (CSN)	880	String	0009307
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	MtchStat	Match status: <ul style="list-style-type: none"> <li>■ 0 – Matched</li> </ul>	573	Character	0
→ Instrmt					

Trades and Trade Updates – Options and Options on Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Sym	Symbol	55	String	QUR
	CFI	CFI code	461	String	OPASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price	202	Price	37.5
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	StrkValu	Strike value	968	Float	100
	Mult	Multiplier	231	Float	100
	Exch	Trade source (MIC)	207	String	XASE
→ Amt					
	Typ	Amount type: ■ PREM – Premium amount	707	String	PREM
	Amt	Extended premium	708	Amount	560
→ RptSide					
	Side	Side: ■ 1 – Buy ■ 2 – Sell	54	Character	1
	InptDev	Input device: ■ FXML –Batch FIXML ■ GUI – Screen entry ■ RTFX – Real time FIXML	579	String	FXML
	Ccy	Premium currency	15	Currency	USD
	PosEfct	Open close code: ■ O – Open ■ C – Close	77	Character	O
	Txt	Clearing member optional data	58	String	NAM2659
	ClOrdID	Order ID	11	String	98765
	CustCpcty	Customer Type Indicator (CTI) code (OOF only)	582	Character	1
	ExchSpecInstr	Exchange optional data	1139	String	123XYZ

## Trades and Trade Updates – Options and Options on Futures

Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	AvgPxInd	Average price indicator: <ul style="list-style-type: none"> <li>■ 0 – No average pricing</li> <li>■ 1 – Trade is part of average price group</li> </ul> Note: May appear for OOF only	819	Integer	0
	AvgPxGrpID	Average price group ID Note: May appear for OOF only	1731	String	1578489
	MLegRptTyp	Spread indicator: <ul style="list-style-type: none"> <li>■ 1 – Outright non-spread trade</li> <li>■ 2 – Individual leg of a multi-leg trade</li> </ul>	752	Character	1
	TrdID	Exchange-assigned trade ID	1003	String	S1DF1234567890P
	CustOrdHdInst	Execution source Note: May appear for OOF only	1031	String	W
	TrdCode	Trade code	CUST	String	31
→ → Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: <ul style="list-style-type: none"> <li>■ 21 – Clearing Organization</li> </ul>	452	Integer	21
→ → Pty					
	ID	Clearing member number	448	String	00001
	R	Party role: <ul style="list-style-type: none"> <li>■ 1 – Executing clearing firm</li> </ul>	452	Integer	1
→ → → Sub					
	ID	Account type: <ul style="list-style-type: none"> <li>■ C – Customer</li> <li>■ F – Firm</li> <li>■ M – Market maker</li> </ul>	523	String	C
	Typ	Type: <ul style="list-style-type: none"> <li>■ 26 – Position account type</li> </ul>	803	Integer	26
→ → Pty					
	ID	Subaccount	448	String	ZZZ
	R	Party role: <ul style="list-style-type: none"> <li>■ 38 – Position account</li> </ul>	452	Integer	38

Trades and Trade Updates – Options and Options on Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ → Pty					
	ID	Take up clearing member number	448	String	00792
	R	Party role: ■ 14 – Take up clearing firm	452	Integer	14
→ → Pty					
	ID	Executing broker	448	String	811F
	R	Party role: ■ 2 – Executing broker	452	Integer	2
→ → Pty					
	ID	Actionable/Customer ID	448	String	DF6312
	R	Party role: ■ 24 – Actionable/Customer ID	452	Integer	24
→ → TrdRegTS					
	TS	Execution time – Format is YYYY-MM-DDTHH:MM:SS.000, where YYYY-MM-DD is the same as the BizDt.  Note: Appears in UTC format, regardless of the time zone format in which OCC receives the data.	769	Timestamp	2022-05-17T07:48:13.000
	Typ	Type: ■ 1 – Regular timestamp value	770	Character	1

## Trades and Trade Updates – Futures

Trades and Trade Update – Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
TrdCaptRpt					
	RptID	Unique identifier for the trade	571	String	541386431
	PrevlyRpted	Previously reported indicator: <ul style="list-style-type: none"> <li>■ N – No</li> <li>■ Y – Yes (resubmitted)</li> </ul>	570	Boolean	N
	LastQty	Quantity	32	Quantity	23
	LastPx	Premium Note: May be negative	31	Price	0.35
	TrdDt	As of date (YYYY-MM-DD)	75	LocalMktDate	2022-05-18
	TransTyp	Trade report transaction type: <ul style="list-style-type: none"> <li>■ 0 – New</li> <li>■ 1 – Cancel (bust)</li> <li>■ 4 – Reverse (backout)</li> </ul>	487	Integer	0
	RptTyp	Trade report type: <ul style="list-style-type: none"> <li>■ 2 – Accept</li> <li>■ 3 – Reject</li> <li>■ 4 – Update</li> <li>■ 8 – Defaulted</li> </ul>	856	Integer	2
	TrdTyp	Trade type: <ul style="list-style-type: none"> <li>■ 0 – Regular trade</li> <li>■ 1 – Block trade</li> <li>■ 2 – Exchange for physical (EFP)</li> </ul>	828	Integer	0
	MtchID	Trade source clearing sequence number (CSN)	880	String	32854
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	MtchStat	Match status: <ul style="list-style-type: none"> <li>■ 0 – Matched</li> </ul>	573	Character	0
→ Instrmt					
	Sym	Symbol	55	String	AOL1N
	ID	Symbol	48	String	AOL1N



Trades and Trade Update – Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Src	ID source: <ul style="list-style-type: none"> <li>8 – Exchange symbol</li> </ul>	22	String	8
	CFI	CFI code	461	String	FFSPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Float	100
	Exch	Trade source (MIC)	207	String	XNQL
→ RptSide					
	Side	Side: <ul style="list-style-type: none"> <li>1 – Buy</li> <li>2 – Sell</li> </ul>	54	Character	1
	InptDev	Input device: <ul style="list-style-type: none"> <li>FXML – Batch FIXML</li> <li>GUI – Screen entry</li> <li>RTFX – Real time FIXML</li> </ul>	579	String	FXML
	Ccy	Premium currency	15	Currency	USD
	PosEfct	Open close code: <ul style="list-style-type: none"> <li>O – Open</li> <li>C – Close</li> </ul>	77	Character	C
	Txt	Clearing member optional data	58	String	NAM2659
	ClOrdID	Order ID	11	String	98765
	CustCpcty	Customer Type Indicator (CTI) code	582	Character	1
	ExchSpecInstr	Exchange optional data	1139	String	123XYZ
	AvgPxInd	Average price indicator: <ul style="list-style-type: none"> <li>0 – No average pricing</li> <li>1 – Trade is part of average price group</li> </ul>	819	Integer	1
	AvgPxGrpID	Average price group ID	1731	String	16548321
	MLegRptTyp	Spread indicator: <ul style="list-style-type: none"> <li>1 – Outright non-spread trade</li> <li>2 – Individual leg of a multi-leg trade</li> </ul>	752	Character	1

Trades and Trade Update – Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	TrdID	Exchange-assigned trade ID	1003	String	S1DF1234567890
	CustOrdHdlInst	Execution source	1031	String	W
	TrdCode	Trade code	CUST	String	31
→ → Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing Organization	452	Integer	21
→ → Pty					
	ID	Clearing member number	448	String	00608
	R	Party role: ■ 1 – Executing clearing firm	452	Integer	1
→ → → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Type: ■ 26 – Position account type	803	Integer	26
→ → Pty					
	ID	Subaccount	448	String	ZZZ
	R	Party role: ■ 38 – Position account	452	Integer	38
→ → Pty					
	ID	Take up clearing member number	448	String	00000
	R	Party role: ■ 14 – Take up clearing firm	452	Integer	14
→ → Pty					
	ID	Executing broker	448	String	Z14
	R	Party role: ■ 2 – Executing broker	452	Integer	2
→ → Pty					

Trades and Trade Update – Futures					
Report/ Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	ID	Actionable/customer ID	448	String	DF6312
	R	Party role: <ul style="list-style-type: none"> <li>24 – Actionable/customer ID</li> </ul>	452	Integer	24
→ → TrdRegTS					
	TS	Execution time – Format is YYYY-MM-DDTHH:MM:SS.000, where YYYY-MM-DD is the same as the BizDt.  Note: Appears in UTC format, regardless of the time zone format in which OCC receives the data.	769	Timestamp	2022-05- 17T07:48:13.000
	Typ	Type: <ul style="list-style-type: none"> <li>1 – Regular timestamp value</li> </ul>	770	Character	1

## Implementation Considerations

### Processing Trades

Trade messages are created in real time. Regardless of how the messages are delivered to a recipient (real time or batch file), recipients must be able to process each message as either a valid, busted, backed out or rejected trade. For valid and busted trades, these messages are delivered in sequential order. A message for a busted trade is sent following the initial valid trade message. Recipients must use the following fields to determine how to process the message:

- TrdTyp – 0 (Regular), 1 (Block trade), 2 (Exchange for Physical), 20 (Cabinet Trade)
- RptID – Unique identifier for a trade
- TransTyp – 0 (New), 1 (Cancel/Bust) or 4 (Reverse/Backout)
- RptTyp – 2 (Accepted), 3 (Rejected), 8 (Defaulted), or 9 (Invalid CMTA)
- TrdSubTyp – 0 (CMTA)

### Additional Processing Fields

In addition to the fields listed above, recipients should incorporate the following fields into their processing.

- BizDt – OCC processes trades for the current business date or next business date.
- PrevlyRpted – Previously reported is populated with Y (Yes) when a trade is resubmitted for processing.

## Trade Scenarios

Trade Scenarios				
Trade Description	TransTyp	RptTyp	TrdTyp	TrdSubTyp
<b>Trades</b>				
Matched trade (posted to the executor's intended account)	0 - New 1 - Bust 4 - Backout	2 - Accept	0 – Regular trade 1 – Block trade 2 – EFP 20 – Cabinet trade	N/A
Defaulted matched trade (posted to the executor's default account)	0,1,4	8 - Defaulted	0, 1, 2, 20	N/A
CMTA trade (posted to the take up's intended account)	0,1,4	2 – Rejected	0, 1, 2, 20	0 - CMTA
Defaulted CMTA trade (posted to the take up's default account)	0,1,4	8 – Defaulted	0, 1, 2, 20	0 - CMTA
Invalid CMTA trade (defaulted to executor's default account)	0,1,4	9 – Invalid CMTA	0, 1, 2, 20	N/A
Rejected matched trade	0,1,4	3 - Reject	0, 1, 2, 20	N/A
<b>Trade Updates</b>				
Trade update, cancel original trade	1 - Bust	4 - Update	0, 1, 2	N/A
Trade update, add trade including updates	0 - New	4 - Update	0, 1, 2	N/A

## Additional Considerations

- OCC transmits all transactions that affect positions via DDS messages. The difference between cancel/bust messages and reverse/backout messages is as follows:
  - Bust – Messages sent by the trade sources to OCC to cancel previously submitted trades.
  - Backout – Messages generated by OCC that are sent as a result of a backout of trades from OCC systems. Resubmitted trades are sent when previously backed out trades are resubmitted for processing at OCC.
- Trade messages sent to clearing members do not include the contra side of a trade. A trade message only shows the clearing member's side of the trade. If a clearing member is on both the buy and sell sides, they receive two messages, one for each side.
- Trade sources and regulatory agencies receive two messages per trade. These two messages contain the same CSN Number (MtchID) and can be used to connect matched trades. One message contains the buy side of the trade, and the other message contains the sell side of the trade.

## Trade Updates

Clearing members can update non-critical fields for valid top day trades on options on futures and futures. Fields on matched trades that are available for update include:

- Account Type
- Subaccount
- Open Close code
- Actionable/Customer ID
- Remarks
- Order ID
- CTI Code

Once a trade update is processed, the system issues a cancel message (TransTyp 1) for the existing trade, then an add message (TransTyp 0) to reflect the update. Both messages have RptTyp 4, differentiating these messages from a regular trade.

## Average Price Groups

Using the GUI or a FIXML trade update message to OCC, a clearing member user can label a trade as part of an average price group (APG) for futures or options on futures trades.

When a trade is made part of an APG, the Average Price Indicator (AvgPxInd) and Average Price Group (AvgPxGrpID) fields are used. AvgPxInd is set to 1, meaning the trade is part of average pricing, and the AvgPxGrpID is identified.

A trade may also be removed from an APG. In this case, AvgPxInd is set to 0, meaning no average pricing.

Whether a trade is being added or removed from an APG, the standard cancel message (TransTyp 1) and add message (TransTyp 0) described in the previous section, are sent.

## Uniqueness Check

The nature of trade and trade update processing creates the possibility of multiple DDS messages per trade. Therefore, recipient systems must review the following fields and check for uniqueness against previously processed messages for the current processing day.

- RptID
- TransTyp
- RptType
- PrevlyRpted
- BizDt
- Buy or Sell side

## Rejected Trades

OCC sends rejected messages if they fail business validation. Rejects are sent to the clearing members and the submitting trade source.

If the message rejected due to invalid formatting, the message rejects but is not sent back to the recipient.

# Rejected Trade Updates

<b>FIX Message</b>	Trade Capture Report Acknowledgement
<b>Subscription Options</b>	Futures Options on futures
<b>Delivery Options</b>	Real time Batch file

## Overview

OCC reports rejected Trade Updates to the submitting clearing member if they fail business validations. If the message rejected due to invalid formatting, the message rejects but is not sent back to the submitter. The original trade is not affected. Trade Capture Acknowledgement messages are used to communicate rejected trade updates.



## Rejected Trade Updates

Rejected Trade Updates					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
TrdCaptRptAck					
	RptRefID	Identifier from the original Trade Update	572	String	184496521
	LastQty	Quantity	32	Quantity	1
	LastPx	Premium	31	Price	93.89
	TrdDt	As of date (YYYY-MM-DD)	75	LocalMktDate	2022-05-18
	TransTyp	Trade report transaction type: ■ 2 – Replace	487	Integer	2
	RptTyp	Trade report type: ■ 3 – Reject	856	Integer	3
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
→ Instrmt					
	Sym	Symbol	55	String	AAPL1C
	CFI	CFI code	461	String	FFXPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	StrkPx	Strike price (decimal format, options on futures only)	202	Price	37.5
→ RptSide					
	Side	Side: ■ 1 – Buy ■ 2 – Sell	54	Integer	2
	PosEfct	Open close code: ■ O – Open ■ C – Close	77	Character	O
	Txt	Remarks	58	String	UPDATE
	ClOrdID	Order ID	11	String	98765
	CustCpcty	Customer Type Indicator (CTI) code	582	Character	1
	AvgPxInd	Average price indicator	819	Integer	1
	AvgPxGrpID	Average price group ID	1731	String	1234

Rejected Trade Updates					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ → Pty					
	ID	Clearing member number	448	String	00123
	R	Party role: ■ 1 – Executing clearing firm	452	Integer	1
→ → → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	M
	Typ	Type: ■ 26 – Position account type	803	Integer	26
→ → Pty					
	ID	Subaccount	448	String	XYZ
	R	Party role: ■ 38 – Position account	452	Integer	38
→ → Pty					
	ID	Actionable/Customer ID	448	String	AB3
	R	Party role: ■ 24 – Actionable/Customer ID	452	Integer	24

# Transfers and Adjustments

<b>FIX Message</b>	Trade Capture Report
<b>Subscription Options</b>	Options Futures Options on futures Invalid
<b>Delivery Options</b>	Real time Batch file

## Overview

Position movement information for transfers and adjustments is available via the Trade Capture Report. The system creates messages in real time as post trades are added, modified, deleted, backed out, or rejected. The messages are available to subscribers in real time or in a cumulative file at end of day.

For every transfer of account or CMTA transfer, a message is created for both sides. When the message is received, the subscribing Clearing Member account information appears first in the message followed by the contra Clearing Member information. For position adjustments, one message is created for each account. For adjustments between the same account (e.g., Clearing Member 00005 Customer to Clearing Member 00005 Customer), two messages are created and transmitted to the single subscriber.

## Trade Sources and Regulatory Agencies

A single message is created for each valid transfer and sent to all trade sources where the product is listed and to the Regulatory Agency where the product is regulated. The message contains source side information first, followed by target side information.

## Transfers and Adjustments

Transfers and Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
TrdCaptRpt					
	RptID	Unique identifier for the transfer	571	String	50000861
	PrevlyRpted	Previously reported indicator: <ul style="list-style-type: none"> <li>■ N – No</li> </ul>	570	Boolean	N
	LastQty	Transfer quantity	32	Quantity	10
	LastPx	Transaction price	31	Price	12.5
	TrdDt	Trade As of Date (YYYY-MM-DD)	75	LocalMktDate	2022-05-18
	TxnTm	Transaction time	60	UTC Timestamp	2022-05-17T07:48:13
	TransTyp	Transaction type: <ul style="list-style-type: none"> <li>■ 0 – New</li> <li>■ 1 – Cancel (bust)</li> <li>■ 4 – Reverse/backout</li> </ul>	487	Integer	0
	RptTyp	Trade report type: <ul style="list-style-type: none"> <li>■ 2 – Accepted</li> <li>■ 3 – Rejected</li> </ul>	856	Integer	2
	TrdTyp	Trade type: <ul style="list-style-type: none"> <li>■ 1 – Block trade</li> <li>■ 2 - Exchange for physical (EFP)</li> <li>■ 3 – Transfer</li> </ul>	828	Integer	3
	TrdSubTyp	Trade sub type: <ul style="list-style-type: none"> <li>■ 0 – CMTA (CMTA transfer) – for options only</li> <li>■ 1 – Internal transfer (adjustment)</li> <li>■ 2 – External transfer (transfer of account)</li> </ul>	829	Integer	0
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	MtchStat	Match status: <ul style="list-style-type: none"> <li>■ 0 – Matched</li> </ul>	573	Character	0
	LinkID	Cost basis control number (External transfers only)	820	String	0419200707280

Transfers and Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Instrmt					
	Sym	Symbol	55	String	IBM
	CFI	CFI code	461	String	OPASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (options and OOF only)	202	Price	60
	StrkCcy	Strike currency (options and OOF only)	947	Currency	USD
	StrkMult	Strike multiplier (options and OOF only)	967	Float	1
	StrkValu	Strike value (options and OOF only)	968	Float	100
	Mult	Multiplier	231	Float	100
→ Amt					
	Typ	Amount type: ■ PREM – Premium amount	707	String	PREM
	Amt	Extended premium	708	Amount	12500
→ TrdLeg	For CMTA transfers, the block repeats for each Trade ID supplied.				
	RptID	Trade ID.	990	String	0728071158
→ RptSide					
	Side	Side: ■ 1 – Buy ■ 2 – Sell	54	Integer	1
	InptDev	Input device: ■ ACAT – ACATS transfer ■ BULK – Bulk Transfer ■ FXML – Batch FIXML ■ GUI – Screen entry ■ RTFX – Real time FIXML	579	String	GUI
	Ccy	Transfer currency	15	Currency	USD
	PosEfct	Open close code: ■ O – Open ■ C – Close	77	Character	O

Transfers and Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Txt	Remarks	58	String	Misc. remarks
	ORFInd	Option regulatory fee (CMTA transfers only) ■ Y – Yes	CUST	String	Y
→ → Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing Organization	452	Integer	21
→ → Pty					
	ID	Clearing member number	448	String	00005
	R	Party role: ■ 1 – Executing clearing firm ■ 14 – Take up firm (CMTA transfers only)	452	Integer	1
→ → → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Type: ■ 26 – Position account type	803	Integer	26
→ → Pty					
	ID	Tier account acronym	448	String	ZZZ
	R	Party role: ■ 38 – Position account	452	Integer	38
→ → Pty					
	ID	Actionable/customer ID	448	String	ABC123
	R	Party role: ■ 24 – Actionable/customer ID	452	Integer	24
→ RptSide					
	Side	Side: ■ 1 – Buy ■ 2 – Sell	54	Integer	2

Transfers and Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	InptDev	Input device: <ul style="list-style-type: none"> <li>■ ACAT – ACATS transfer</li> <li>■ BULK – Bulk transfer</li> <li>■ FXML – Batch FIXML</li> <li>■ GUI – Screen entry</li> <li>■ RTFX – Real time FIXML</li> </ul>	579	String	GUI
	Ccy	Transfer currency	15	Currency	USD
	PosEfct	Open close code: <ul style="list-style-type: none"> <li>■ O – Open</li> <li>■ C – Close</li> </ul>	77	Character	C
	Txt	Remarks	58	String	Misc. remarks
	ORFInd	Option regulatory fee (CMTA transfers only) <ul style="list-style-type: none"> <li>■ Y – Yes</li> </ul>	CUST	String	Y
→ → Pty					
	ID	Contra clearing group name	448	String	OCC
	R	Party role: <ul style="list-style-type: none"> <li>■ 21 – Clearing organization</li> </ul>	452	Integer	21
→ → Pty					
	ID	Contra clearing member number	448	String	00690
	R	Party role: <ul style="list-style-type: none"> <li>■ 18 – Contra clearing firm</li> </ul>	452	Integer	18
→ → → Sub					
	ID	Contra account type code: <ul style="list-style-type: none"> <li>■ C – Customer</li> <li>■ F – Firm</li> <li>■ M – Market maker</li> </ul>	523	String	C
	Typ	Type: <ul style="list-style-type: none"> <li>■ 26 – Position account type</li> </ul>	803	Integer	26
→ → Pty					
	ID	Tier account acronym	448	String	ZZZ
	R	Party role: <ul style="list-style-type: none"> <li>■ 38 – Position account</li> </ul>	452	Integer	38

Transfers and Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ → Pty					
	ID	Actionable/customer ID	448	String	ABC123
	R	Party role: <ul style="list-style-type: none"> <li>■ 24 – Actionable/customer ID</li> </ul>	452	Integer	24



## Implementation Considerations

### Processing Transfers and Adjustments

Messages for Transfers and adjustments are created in real time. Regardless of how these messages are delivered to a recipient (real time or batch), recipients must be able to process each message. Messages for updated transfers are always delivered in sequential order.

Where the TrdTyp is 3 (Transfer), recipient systems must use the following fields to determine how to process the message:

- RptID – Unique identifier for the transfer
- TransTyp – 0 (New), 1 (Cancel/Delete), 2 (Replace), or 4 (Reverse or Backout)
- RptTyp – 2 (Accepted) or 3 (Rejected)
- TrdSubType – 0 (CMTA), 1 (Internal Transfer/Adjustment), or 2 (External Transfer/Transfer of Account)

### Additional Processing Fields

In addition to the fields listed above, recipients should incorporate the following field into their processing.

- BizDt – With extended trading hours, OCC processes transfers for the current business date or next business date.

### Transfers and Adjustments Scenarios

Transfers and Adjustments Scenarios				
Trade Capture Report	TransTyp	RptTyp	TrdTyp	TrdSubTyp
Valid – CMTA Transfer, Adjustment, Matched Transfer	0 – New	2 – Accepted	3 – Transfer	0 – CMTA transfer 1 – Internal transfer(adjustment) 2 – External transfer (transfer of account)
Modified – Adjustment	1 – Cancel followed by 0 – New	2	3	0, 1, 2
Deleted – Adjustment	1 - Cancel	2	3	0, 1, 2
Rejected – CMTA Transfer, Adjustment, Matched Transfer	0	3 - Rejected	3	0, 1, 2
Reversed – CMTA Transfer, Matched Transfer	4 – Reverse/Backout	2	3	0, 2
Backout – CMTA Transfer, Adjustment, Matched Transfer	4	2	3	0, 1, 2

## Uniqueness Check

It is possible to have multiple messages per CMTA transfer, adjustment, or matched transfer. Therefore, recipient systems must review the following fields and check for uniqueness against previously processed messages for the current processing day.

- RptID
- TransTyp
- RptTyp
- BizDt

## Invalid Transfers

OCC sends invalid transfer messages if they fail business validation back to the submitter. If the message is rejected due to invalid formatting, the message is rejected but is not sent back to the submitter.

## Trade ID on CMTA Transfers

Each Trade ID attached to a CMTA transfer is included on the output message. If multiple Trade IDs are supplied on a CMTA transfer, the TrdLeg block repeats for each Trade ID.

# Positions

<b>FIX Message</b>	Position Report
<b>Subscription Options</b>	Options Futures Options on futures
<b>Delivery Options</b>	Batch file

## Overview

For each option or future position, one Position Report message is created, indicating the long and short quantities. Mark-to-market data is also included in each message when applicable.

## Positions – Options and Options on Futures

Positions – Options and Options on Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosRpt					
	RptID	Unique identifier for the position	721	String	326877967
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	ReqTyp	Request type: ■ 0 – Positions	724	Integer	0
	Ccy	Currency	15	Currency	USD
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00161
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	SPO
	R	Party role: ■ 38 – Position account type	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	OXZ
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518

Positions – Options and Options on Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	21.625
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	StrkValu	Strike value	968	Decimal	100
	Mult	Multiplier	231	Decimal	100
→ Qty					
	Typ	Quantity type: ■ SOD – Start of day	703	String	SOD
	Long	Start long	704	Quantity	10
	Short	Start short	705	Quantity	3327
→ Qty					
	Typ	Quantity type: ■ FIN – End of day	703	String	FIN
	Long	Current long	704	Quantity	10
	Short	Current short	705	Quantity	3327
→ Qty					
	Typ	Quantity type: ■ EXP – Expiring positions	703	String	EXP
	Long	Expiring long	704	Quantity	4000
	Short	Expiring short	705	Quantity	500

## Positions – Futures

Positions – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosRpt					
	RptID	Unique identifier for the position	721	String	193197353
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	ReqTyp	Request type: ■ 0 – Positions	724	Integer	0
	Ccy	Currency	15	Currency	USD
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00690
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	M
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	SPO
	R	Party role: ■ 38 – Position account	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	MOT1C
	ID	Futures symbol	48	String	MOT1C
	Src	ID source: ■ 8 – Exchange symbol	22	String	8

Positions – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	CFI	CFI code	461	String	FFSPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Decimal	100
→ Qty					
	Typ	Quantity type: <ul style="list-style-type: none"> <li>■ SOD – Start of day</li> </ul>	703	String	SOD
	Long	Start long	704	Quantity	150
	Short	Start short	705	Quantity	0
→ Qty					
	Typ	Quantity type: <ul style="list-style-type: none"> <li>■ FIN – End of day</li> </ul>	703	String	FIN
	Long	Current long	704	Quantity	100
	Short	Current short	705	Quantity	0
→ Amt	Note: The Position Amount block is created for futures positions only.				
	Typ	Position amount type: <ul style="list-style-type: none"> <li>■ FMTM – Futures mark-to-market</li> </ul>	707	String	FMTM
	Amt	Position amount quantity (The value is negative for pay and positive for collect.)	708	Quantity	8970

## Implementation Considerations

Trade sources receive positions for products listed on their exchange.

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# Adjusted Positions

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<b>FIX Message</b>	Adjusted Positions Report
<b>Subscription Options</b>	Options Futures
<b>Delivery Options</b>	Batch file

## Overview

The Adjusted Position Report includes positions that have been adjusted due to a corporate action. One message is created for each adjusted position.



## Adjusted Positions Report – Options

Adjusted Positions – Options					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
AdjPosRpt					
	RptID	Unique identifier for the position	721	String	541386431
	ReqTyp	Request type: ■ 0 – Positions	724	Integer	0
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	SetSesID	Settle session ID: ■ EOD – End-of-day corporate action	716	String	EOD
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00005
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	M
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	ZZZ
	R	Party role: ■ 38 – Position account type	452	Integer	38
→ Qty					
	Typ	Quantity type: ■ SOD – Start of day	703	String	SOD

Adjusted Positions – Options					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Long	Long quantity before the corporate action adjustment	704	Quantity	40
	Short	Short quantity before the corporate action adjustment	705	Quantity	0
→ Qty					
	Typ	Quantity type: <ul style="list-style-type: none"> <li>CAA – Corporate action adjustment</li> </ul>	703	String	CAA
	Long	Long quantity after the corporate action adjustment	704	Quantity	80
	Short	Short quantity after the corporate action adjustment	705	Quantity	0
→ Instrmt					
	Status	Status of instrument: <ul style="list-style-type: none"> <li>1 – New</li> <li>2 – Old</li> </ul>	965	String	2
	Sym	Symbol	55	String	AOL
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	20
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	StrkValu	Strike value	968	Float	100
	Mult	Multiplier	231	Decimal	100
	Dated	Activation date	873	LocalMktDate	2022-05-18
If a tradable instrument has both an activation and inactivation date, then Dated and InacDt tags are present. If an Activation Date exists without a corresponding Inactivation Date, then only a Dated tag is present.					
	InacDt	Inactivation date	CUST	LocalMktDate	2022-10-19
	ClrgOrg	Clearing corporation: <ul style="list-style-type: none"> <li>1 – OCC</li> </ul>	CUST	String	1
The following Instrmt block may repeat if the corporate action results in the original position being split into multiple symbols.					

Adjusted Positions – Options					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Instrmt					
	Status	Status of instrument: <ul style="list-style-type: none"> <li>■ 1 – New</li> <li>■ 2 – Old</li> </ul>	965	String	1
	Sym	Symbol	55	String	AOL
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	10
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	Mult	Multiplier	231	Decimal	100
	Dated	Activation date	873	LocalMktDate	2022-05-18
If a tradable instrument has both an activation and inactivation date, then Dated and InacDt tags are present. If an Activation Date exists without a corresponding Inactivation Date, then only a Dated tag is present.					
	InacDt	Inactivation date (YYYY-MM-DD)	CUST	LocalMktDate	2022-10-19
	ClrgOrg	Clearing corporation: <ul style="list-style-type: none"> <li>■ 1 – OCC</li> </ul>	CUST	String	1

## Adjusted Positions – Futures

Adjusted Positions – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
AdjPosRpt					
	RptID	Unique identifier for the position	721	String	41386431
	ReqTyp	Request type: ■ 0 – Positions	724	Integer	0
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	SetSesID	Settle session ID: ■ EOD – End-of-day corporate action	716	String	EOD
	SetPx	Futures settlement price (after corporate action adjustment)	730	Price	21.17
	PriSetPx	Prior futures settlement price (before corporate action adjustment)	734	Price	42.34
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00005
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	M
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	ZZZ
	R	Party role: ■ 38 – Position account type	452	Integer	38

Adjusted Positions – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Qty					
	Typ	Quantity type: ■ SOD – Start of day	703	String	SOD
	Long	Long quantity before the corporate action adjustment	704	Quantity	40
	Short	Short quantity before the corporate action adjustment	705	Quantity	0
→ Qty					
	Typ	Quantity type: ■ CAA – Corporate action adjustment	703	String	CAA
	Long	Long quantity after the corporate action adjustment	704	Quantity	80
	Short	Short quantity after the corporate action adjustment	705	Quantity	0
→ Instrmt					
	Status	Status of instrument: ■ 1 – Active ■ 2 – Inactive	965	String	2
	Sym	Symbol	55	String	AOL1N
	ID	Symbol	48	String	AOL1N
	Src	ID source: ■ 8 – Exchange symbol	22	String	8
	CFI	CFI code	461	String	FFXPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Decimal	100
	Dated	Activation date	873	LocalMktDate	2022-05-18
If a product has both an activation and inactivation date, then Dated and InacDt tags are present. If an Activation Date exists without a corresponding Inactivation Date, then only a Dated tag is present.					
	InacDt	Inactivation date (YYYY-MM-DD)	CUST	LocalMktDate	2022-10-19
	ClrgOrg	Clearing corporation for an instrument: ■ 1 – OCC	CUST	String	1

Adjusted Positions – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Instrmt					
	Status	Status of instrument: <ul style="list-style-type: none"> <li>■ 1 – Active</li> <li>■ 2 – Inactive</li> </ul>	965	String	1
	Sym	Symbol	55	String	AOL1N
	ID	Symbol	48	String	AOL1N
	Src	ID source: <ul style="list-style-type: none"> <li>■ 8 – Exchange symbol</li> </ul>	22	String	8
	CFI	CFI code	461	String	FFXPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Decimal	100
	Dated	Activation date (YYYY-MM-DD)	873	LocalMktDate	2022-05-18
If a product has both an activation and inactivation date, then Dated and InacDt tags are present. If an Activation Date exists without a corresponding Inactivation Date, then only a Dated tag is present.					
	InacDt	Inactivation date (YYYY-MM-DD)	CUST	LocalMktDate	2022-10-19
	ClrgOrg	Clearing corporation: <ul style="list-style-type: none"> <li>■ 1 – OCC</li> </ul>	CUST	String	1

## Implementation Considerations

Adjusted Positions DDS runs once nightly after corporate action processing. There may be days where no corporate actions are processed, and therefore no Adjusted Positions DDS is generated. Similarly, if a subscriber doesn't have positions in a product undergoing a corporate action, no Adjusted Positions DDS is generated for that subscriber.

Regularly, corporate actions are processed at the very end of OCC's processing for a given day. Therefore, Adjusted Position Reports are generated several hours later than all other messages. For this reason, OCC recommends that Adjusted Position Reports not be bundled with other message types. Packaging Adjusted Positions with other messages may significantly delay delivery of the other messages in that package.

### Business Date

Adjusted positions are processed at the end of OCC nightly cycle after the date roll. Since the date has rolled, the business date on the adjusted position message will reflect the next business day.

### Backout Messages

If a corporate action is backed out, Adjusted Position Reports are generated.. A backout message uses the same FIX Adjusted Position Report format as the message that was sent when the initial corporate action was applied. These messages are sent after OCC notifies the data recipients of the data sent in error. In a backout message, the quantity fields and the data in the two instrument blocks are reversed from the original message.

# Exercises

<b>FIX Message</b>	Position Maintenance Report
<b>Subscription Options</b>	Options Options on Futures
<b>Delivery Options</b>	Batch file

## Overview

Exercise activity is detailed using the Position Maintenance Report. The exercise quantity on the report is the contract quantity applied to a long position that day, regardless of the number of exercises entered against that position. If the exercise contract quantity exceeds available longs, the excess quantity is reported as an unexercised quantity. The day a position is exercised, the system creates both a Settlement Activity message and an Exercise message.



## Exercise

Exercise					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosMntRpt					
	RptID	Unique identifier for the exercised position	721	String	144535569
	TxnTyp	Transaction type: ■ 1 – Exercise	709	Integer	1
	Actn	Action: ■ 1 – New	712	Integer	1
	Stat	Status: ■ 0 – Accepted	722	Integer	0
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	AdjTyp	Adjustment action: ■ 3 – Final	718	Integer	3
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00234
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	SPO
	R	Party role: ■ 38 – Position account	452	Integer	38

Exercise					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Instrmt					
	Sym	Symbol	55	String	LU
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	4
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Decimal	1
	StrkValu	Strike value	968	Float	100
	Mult	Multiplier	231	Decimal	100
→ Qty					
	Typ	Quantity type: ■ EX – Exercise quantity	703	String	EX
	Long	Long quantity	704	Quantity	417
→ Qty					
	Typ	Quantity type: ■ UNEX – Unexercised exercise quantity	703	String	UNEX
	Long	Long quantity	704	Quantity	50
→ Amt					
	Typ	Amount type: ■ SETL – Settlement value	707	String	SETL
	Amt	Extended settlement value	708	Amount	166800

## Implementation Considerations

Listed below are some examples of how exercises are handled in DDS.

### Example 1: Sufficient Long Positions

If an exercise is entered for 5 contracts and the final long position is 10 contracts, the EX output is `<Qty Typ="EX" Long="5" />`.

### Example 2: Insufficient Long Positions

- If an exercise is entered for 20 contracts and the final long position is 5 contracts, the EX output is `<Qty Typ="EX" Long="5" />` and the UNEX output is `<Qty Typ="UNEX" Long="15" />`.
- If an exercise is entered for 5 contracts and the final long position is 0 contracts, the UNEX output is `<Qty Typ="UNEX" Long="5" />`.

In the second example above, since there is no exercise quantity, the Amt blocks which include the settlement value are not included in the exercise message.

### Example 3: Expiration Processing

For expiration processing, OCC looks at all EEDs entered as an exercise instruction. However, if a Clearing Member inputs an Ex-by-Ex instruction through the screen, this overrides the EED instruction. For example:

An EED is entered for 50 contracts and the Clearing Member changes the instruction via the screen during the Ex-by-Ex entry window to 25 contracts. If the final long position is 10 contracts, the EX output is `<Qty Typ="EX" Long="10" />` and the UNEX output is `<Qty Typ="UNEX" Long="15" />`.

---

# Assignments

---

<b>FIX Message</b>	Assignment Report
<b>Subscription Options</b>	Options Options on Futures
<b>Delivery Options</b>	Batch file

## Overview

The current day's assignments are included in the Assignment Report. The day a short position is assigned, the system creates both an Assignment message and a Settlement Activity message.

## Assignments

Assignments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
AsgnRpt					
	RptID	Unique identifier for the assigned position	833	String	144535614
	AsgnMeth	Assignment method: <ul style="list-style-type: none"> <li>■ P – Pro rata</li> <li>■ R – Random</li> </ul>	744	Character	R
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: <ul style="list-style-type: none"> <li>■ 21 – Clearing organization</li> </ul>	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00050
	R	Party role: <ul style="list-style-type: none"> <li>■ 4 – Clearing firm</li> </ul>	452	Integer	4
→ → Sub					
	ID	Account type: <ul style="list-style-type: none"> <li>■ C – Customer</li> <li>■ F – Firm</li> <li>■ M – Market maker</li> </ul>	523	String	C
	Typ	Party role: <ul style="list-style-type: none"> <li>■ 26 – Position account type</li> </ul>	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	SPO
	R	Party role: <ul style="list-style-type: none"> <li>■ 38 – Position account</li> </ul>	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	MSQ
	CFI	CFI code	461	String	OPASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518

Assignments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	27.5
	StrkCcy	Strike currency	947	Currency	USD
	StrkValu	Strike value	968	Float	100
	Mult	Multiplier	231	Decimal	100
→ Qty					
	Typ	Quantity type: ■ AS – Exercise quantity	703	String	AS
	Short	Assigned quantity	704	Quantity	25
→ Amt					
	Typ	Amount type: ■ SETL – Settlement value	707	String	SETL
	Amt	Extended settlement value	708	Amount	68750

# Exercise and Contrary Intentions Acknowledgements

<b>FIX Message</b>	Position Maintenance Report
<b>Subscription Options</b>	Options
<b>Delivery Options</b>	Batch file Real time

## Overview

Exercise and Contrary Intentions Acknowledgement messages are generated for exercise or contrary instructions submitted via FIXML input or from the GUI. They serve as an acknowledgement to the submitting clearing member that OCC received and accepted their exercise or contrary instruction input. The Position Maintenance Report is used to communicate exercise or contrary intentions acknowledgements.

Please note that these messages only indicate that OCC accepted the exercise or contrary instruction. Processing of the exercise or contrary instruction occurs during finalization and may be fully applied, partially applied, or rejected during this processing.

## Exercise and Contrary Intentions Acknowledgements

Exercise and Contrary Intentions Acknowledgements					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosMntRpt					
	RptID	Unique identifier for the Exercise or Contrary Intention Acknowledgement	721	String	144535569
	TxnTyp	Transaction type: <ul style="list-style-type: none"> <li>■ 1 – Exercise or EED</li> <li>■ 2 – DNED</li> </ul>	709	Integer	1
	Actn	Action: <ul style="list-style-type: none"> <li>■ 1 – New</li> </ul>	712	Integer	1
	Stat	Status: <ul style="list-style-type: none"> <li>■ 0 – Accepted</li> </ul>	722	Integer	0
	InptSrc	Input source: <ul style="list-style-type: none"> <li>■ FXML – FIXML batch</li> <li>■ GUI – Screen entry</li> <li>■ RTFX – Real time FIXML</li> </ul>	979	String	FXML
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	Txt	Optional data	58	String	
	TxnTm	Transaction time	60	UTC Timestamp	2022-05-17T07:48:13
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: <ul style="list-style-type: none"> <li>■ 21 – Clearing organization</li> </ul>	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00234
	R	Party role: <ul style="list-style-type: none"> <li>■ 4 – Clearing firm</li> </ul>	452	Integer	4
→ → Sub					
	ID	Account type: <ul style="list-style-type: none"> <li>■ C – Customer</li> <li>■ F – Firm</li> <li>■ M – Market maker</li> </ul>	523	String	C



Exercise and Contrary Intentions Acknowledgements					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Typ	Party role: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Subaccount	448	String	SPO
	R	Party role: ■ 38 – Position account	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	LU
	CFI	CFI code	461	String	OCXXXX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	StrkPx	Strike price (decimal format)	202	Price	4
→ Qty					
	Typ	Quantity type: ■ EX – Standard exercise intention acknowledgement ■ TOT – Contrary intentions acknowledgement	703	String	EX
	Long	Long quantity	704	Quantity	417
	Stat	Quantity status: ■ 0 – Submitted	706	Integer	0

## Implementation Considerations

DDS Acknowledgment messages include new or updated quantities. An updated quantity could be a negative or positive value. If a firm modifies the quantity from 10 to 8, the quantity field is populated with -2. If a firm modifies the quantity from 10 to 12, the quantity field is populated with 2.

## Exercise and Contrary Intentions Scenarios

Intention Type	TxnTyp	Typ (quantity type)
Exercise	1 – Exercise	EX – Option exercise quantity
EED	1 – EED	TOT – Total transaction quantity
DNED	2 – Do not exercise	TOT – Total transaction quantity

# Settlement Activity

<b>FIX Message</b>	Position Report
<b>Subscription Options</b>	Options Futures
<b>Delivery Options</b>	Batch file

## Overview

One Settlement Activity message is created for each exercised or assigned position on the date of the activity (Obligation Date). If a single position has both exercise and assignment activities, two messages are created for that position. The Position Report is used to communicate settlement activity.

When an option or future has multiple components, the message includes repeating Underlying (<PosUnd>) component blocks. An Underlying block includes information on each delivery component that is defined for the option or future.

Futures that are settling for cash do not have settlement activity messages created on the day of expiration, as the settlement takes place through the mark-to-market process.

DDS creates Settlement Activity records on the following business dates only:

- The date on which a delivery obligation is created, regardless of whether the delivery obligation is settling or is pending.
- The date on which a pending delivery obligation unpendes and is ready to settle. The Settlement Activity message retains the business date of the original obligation.

For example:

Option AAA with three delivery components: AAA stock, BBB stock, and cash.

The AAA option is exercised, and the BBB stock and cash are ready to settle, but the AAA stock is not ready to settle. During nightly processing, a settlement activity record is created in DDS showing the AAA option in the Instrument block and three PositionUnderlying blocks showing the details of each component. Four days later the AAA stock is ready to settle. On that date a settlement activity record is created showing the AAA option in the Instrument block and a single PositionUnderlying block showing the details of the settling AAA component. This settlement activity record has a business date of four days earlier, when the original obligation was created.

## Message Layout – Settlement Activity – Options

Position Report – Settlement Activity – Options					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosRpt					
	RptID	Unique identifier for the settling position	721	String	1500045172
	BizDt	Clearing business date or original obligation date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	ReqTyp	Request type: ■ 4 – Settlement activity	724	Integer	4
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00161
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Type: ■ 26 – Position account type	803	Integer	26
→ Pty					
	ID	Sub account	448	String	ZZZ
	R	Role: ■ 38 – Position account	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	EC
	CFI	CFI code	461	String	OCASPS
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518

## Position Report – Settlement Activity – Options

Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (decimal format)	202	Price	30
	StrkCcy	Strike currency	947	Currency	USD
	StrkMult	Strike multiplier	967	Float	1
	StrkValu	Strike value	968	Decimal	100
	Mult	Multiplier	231	Decimal	100
→ PosUnd					
→ → Undly	The Undly component block repeats for multiple underlying components.				
	Sym	Underlying symbol	311	String	EC
	ID	Underlying CUSIP	309	String	292845104
	Src	ID source: ■ 1 – CUSIP	305	String	1
	CFI	CFI code	463	String	EXXXXX
	AllocPct	Allocation percentage	972	Percentage	100
	Qty	Underlying quantity	879	Quantity	100
	CashAmt	Underlying cash amount (Only used for CashTyp=FIXD)	973	Amount	1.22
	CashTyp	Underlying cash type: ■ FIXD – Cash fixed ■ DIFF – Cash difference	974	Char	FIXD
	SetMeth	Settlement method: ■ BTOB – Broker to broker ■ CADF – Cash difference ■ CAFX – Cash fixed ■ CCC – Corresponding clearing corp.	1039	Char	CCC
→ → → Pty	This party block is present only for settlement method CCC.				
	ID	Clearing corp. name	448	String	NSCC
	R	Party role: ■ 25 – Correspondent clearing organization	452	Integer	25
→ → UndDlvAmt					
	PayAmt	Underlying pay amount	985	Amount	5000

Position Report – Settlement Activity – Options					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	ColAmt	Underlying collect amount	986	Amount	150000
	StlDt	Settlement date	987	LocalMktDate	2022-05-18
	SetStat	Settlement status: <ul style="list-style-type: none"> <li>■ 0 – Settling</li> <li>■ 2 – Delayed</li> </ul>	988	String	0
→ Qty					
	Typ	Quantity type: <ul style="list-style-type: none"> <li>■ DLV – Delivery quantity</li> <li>■ RCV – Receive quantity</li> </ul>	703	String	DLV
	Long	Long quantity	704	Quantity	0
	Short	Short quantity	705	Quantity	50
	QtyDt	Date of activity (YYYY-MM-DD)	CUST	LocalMktDate	2022-05-18

## Message Layout – Settlement Activity – Futures

Position Report – Settlement Activity – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosRpt					
	RptID	Unique identifier for the settling position	721	String	350579344
	BizDt	Clearing business date or original obligation date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	ReqTyp	Request type: <ul style="list-style-type: none"> <li>4 – Settlement activity</li> </ul>	724	Integer	4
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: <ul style="list-style-type: none"> <li>21 – Clearing organization</li> </ul>	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00161
	R	Party role: <ul style="list-style-type: none"> <li>4 – Clearing firm</li> </ul>	452	Integer	4
→ → Sub					
	ID	Account type: <ul style="list-style-type: none"> <li>C – Customer</li> <li>F – Firm</li> <li>M – Market maker</li> </ul>	523	String	F
	Typ	Type: <ul style="list-style-type: none"> <li>26 – Position account type</li> </ul>	803	Integer	26
→ Pty					
	ID	Sub account	448	String	ABC
	R	Role: <ul style="list-style-type: none"> <li>38 – Position account</li> </ul>	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	JNJ1C
	ID	Futures symbol	48	String	JNJ1C
	Src	Source: <ul style="list-style-type: none"> <li>8 – Exchange symbol</li> </ul>	22	String	8

Position Report – Settlement Activity – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	CFI	CFI code	461	String	FFSPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Decimal	100
→ PosUnd					
→ → Undly	The Undly component block repeats for multiple underlying components.				
	Sym	Underlying symbol	311	String	JNJ
	ID	Underlying CUSIP	309	String	478160104
	Src	ID source: ■ 1 – CUSIP	305	String	1
	CFI	CFI code	463	String	EXXXXX
	AllocPct	Allocation percentage	972	Percentage	100
	Qty	Underlying quantity	879	Quantity	100
	CashAmt	Underlying cash amount Only used for CashTyp=FIXD	973	Amount	1.22
	CashTyp	Underlying cash type: ■ FIXD – Cash fixed ■ DIFF – Cash difference	974	Char	FIXD
→ → → Pty	This party block will only be present for settlement method CCC.				
	ID	Clearing corp. name	448	String	NSCC
	R	Party role: ■ 25 – Correspondent clearing organization	452	Integer	25
→ → UndDlvAmt					
	PayAmt	Underlying pay amount	985	Amount	354540
	ColAmt	Underlying collect amount	986	Amount	6000
	StlDt	Settlement date	987	LocalMktDate	2022-05-18
	SetStat	Settlement status: ■ 0 – Settling ■ 2 – Delayed	988	String	0
→ Qty					

Position Report – Settlement Activity – Futures					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	Typ	Quantity type: <ul style="list-style-type: none"> <li>■ DLV – Delivery quantity</li> <li>■ RCV – Receive quantity</li> </ul>	703	String	RCV
	Long	Long quantity	704	Quantity	60
	Short	Short quantity	705	Quantity	0
	QtyDt	Date of activity (YYYY-MM-DD)	CUST	LocalMktDate	2022-05-18

## Implementation Considerations

A settlement activity message contains all delivery components defined for the option or future if they are settling or pending settlement. Once the assignment/exercise date passes, the delivery component is no longer listed on the message, even if other components for the same option or future position are still pending settlement or “yet to settle”.

If a single position has both exercise and assignment activity, two messages are created for that position.

The settlement pay or collect amount, settlement date, and settlement status are listed for each delivery component.



# Gross Position Adjustments

<b>FIX Message</b>	Position Maintenance Report
<b>Subscription Options</b>	Futures Options on Futures
<b>Delivery Options</b>	Batch file Real time

## Overview

Gross Position Adjustments for futures and options on futures are the result of Position Change Submissions (PCS) sent to OCC and use the Position Maintenance Report to show the quantity opened or closed for a particular position. OCC processes PCS twice during the day; the standard nightly processing and late PCS which is processed each morning. PCS may be sent during the business day and will be processed in the appropriate cycle depending on the time the message is received. Gross Position Adjustment messages may be sent in real time or in a batch file.

## Gross Position Adjustments

Gross Position Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
PosMntRpt					
	RptID	Unique identifier for the Gross Position Adjustment	721	String	96805733
	TxnTyp	Transaction type: ■ 3 – Position adjustment	709	Integer	3
	Actn	Action: ■ 1 – New	712	Integer	1
	Stat	Status: ■ 0 – Accepted	722	Integer	0
	BizDt	Clearing business date (YYYY-MM-DD)	715	LocalMktDate	2022-05-18
	TxnTm	Transaction time	60	UTC Timestamp	2022-05-17T07:48:13
	AdjTyp	Adjustment action: ■ 1 – Plus (Increase Position) ■ 2 – Minus (Decrease Position)	718	Integer	1
	Txt	Remarks	58	String	
→ Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ Pty					
	ID	Clearing member number	448	String	00352
	R	Party role: ■ 4 – Clearing firm	452	Integer	4
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	M
	Typ	Party role: ■ 26 – Position account type	803	Integer	26

Gross Position Adjustments					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Pty					
	ID	Subaccount	448	String	ZZZ
	R	Party role: ■ 38 – Position account	452	Integer	38
→ Instrmt					
	Sym	Symbol	55	String	AOL1N
	ID	Symbol	48	String	AOL1N
	Src	ID source: ■ 8 – Exchange symbol	22	String	8
	CFI	CFI code	461	String	FFSPSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	StrkPx	Strike price (Option on Futures only)	202	Price	125
	StrkCcy	Strike currency (Option on Futures only)	947	Currency	USD
	StrkMult	Strike multiplier (Option on Futures only)	967	Float	1
	StrkValu	Strike value (Option on Futures only)	968	Float	10
	Mult	Multiplier	231	Decimal	100
→ Qty					
	Typ	Quantity type: ■ TQ – Adjustment quantity	703	String	TQ
	Long	Long position contract quantity	704	Quantity	35
	Short	Short position contract quantity	705	Quantity	35

## Implementation Considerations

### Processing Gross Position Adjustment Messages

Gross Position Adjustment messages are delivered in batch or real time. Recipients must be able to process each message as a valid gross position adjustment. Recipient systems must use the following fields to determine how to process the message:

- RptID – Unique identifier for a gross position adjustment
- TxnTyp – 3 (Position Adjustment)
- Actn – 1 (New),
- Stat – 0 (Accepted)
- AdjTyp – indicates if the adjustment (1) increases or (2) decreases the position.
- Typ – Amount that the position will be increased or decreased.

### Position Change Submissions Cycles

OCC has two PCS cycles which include the standard nightly cycle and the late PCS which is submitted the following morning. Depending on when the file is sent, OCC will process the message in the appropriate cycle. PCS generates GPAs which are available in real time or batch files.

# Give Ups

<b>FIX Message</b>	Allocation Report
<b>Subscription Options</b>	Futures Options on futures Invalid
<b>Delivery Options</b>	Real time Batch file

## Overview

The Give Ups message is used for futures and options on futures products to move trades from the give up firm to a take up firm. The Allocation Report message is used to communicate give ups.

When a give up clearing member submits a valid give up transaction, OCC sends a FIXML confirmation to the give up clearing member and sends a notification to the take up clearing member alerting them that there is an unclaimed allocation pending, requesting their attention. The take up clearing member is able to accept or reject unclaimed give ups through a FIXML message or GUI screen. Once the give up is claimed or rejected, OCC notifies both the give up and take up clearing members through an Allocation Report FIXML message.

Claimed give up messages are sent to all subscribing trade sources and regulatory agencies where the financial instrument is listed or regulated. Unclaimed give ups that are rejected by the take up do not get sent to trade sources or regulatory agencies.

## Give up/Take up Process

The give up process begins when a clearing member or delegate enters a give up in the GUI or submits a give up using the Allocation Instruction FIXML message to OCC.

Upon OCC validation, a give up transaction is created.

If a valid Give up Agreement between the give up and take up clearing members exists in the Ovation platform, the give up is automatically marked as claimed and an Allocation Report message is sent to both parties of the transaction as well as any subscribing regulators and trade sources.

If no agreement between the clearing members exists, then the give up is considered unclaimed. OCC sends a notification to both clearing members that the give up transaction is unclaimed using an Allocation Report message. The GUI also shows the give up in an unclaimed status.

The take up clearing member to an unclaimed give up is expected to provide a claim (accept) or reject response. The take up clearing member may respond using the GUI or send OCC a FIXML response using the Allocation Report Acknowledgement message containing the transaction ID from the original unclaimed Allocation Report notification and the decision to claim or reject.

After OCC processes the claim or reject response, OCC sends an Allocation Report message to the give up and take up clearing members, stating whether the give up is claimed or rejected.

## Give Ups

Give ups					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
AllocRpt					
	RptID	Unique identifier for the Allocation message	755	String	350003602
	ID	Unique Identifier for the Allocation transaction	70	String	350001978
	Stat	Allocation status: <ul style="list-style-type: none"> <li>■ 0 – Accepted successfully processed (claimed)</li> <li>■ 1 – Reject successfully processed (rejected)</li> <li>■ 3 – Received, not yet processed (unclaimed)</li> <li>■ 5 – Rejected by OCC (invalid)</li> <li>■ 7 - Reversed</li> </ul>	87	Integer	3
	PosEfct	Open/close code(originator): <ul style="list-style-type: none"> <li>■ C – Close</li> <li>■ O – Open</li> </ul>	77	String	O
	Side	Side: <ul style="list-style-type: none"> <li>■ 1 – Buy</li> <li>■ 2 – Sell (originator)</li> </ul>	54	Integer	1
	TrdDt	As of date (YYYY-MM-DD)	75	LocalMktDate	2022-05-18
	TxnTm	Date/time when allocation is created	60	UTC Timestamp	2022-05-17T07:48:13
	TransTyp	Transaction type: <ul style="list-style-type: none"> <li>■ 0 – New</li> <li>■ 2 – Cancel</li> </ul>	71	Integer	0
	RptTyp	Type or purpose of Give up transaction: <ul style="list-style-type: none"> <li>■ 2 – Preliminary confirm</li> <li>■ 8 – Request to OCC</li> <li>■ 9 – Give up accepted</li> <li>■ 10 – Reject</li> <li>■ 11 – Accept pending</li> <li>■ 12 – Give up completed</li> </ul>	794	Integer	11

Give ups					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	TrdTyp	Trade type: <ul style="list-style-type: none"> <li>0 – Regular trade</li> <li>1 – Block trade</li> <li>2 – Exchange for physical (EFP)</li> </ul>	828	Integer	1
	MLegRptTyp	Spread indicator: <ul style="list-style-type: none"> <li>1 – Outright non-spread trade</li> <li>2 – Individual leg of a multi-leg trade</li> </ul>	442	Character	2
	BizDt	Clearing business date	715	LocalMktDate	20060516
	InptDev	Message event source: <ul style="list-style-type: none"> <li>FXML – Batch FIXML</li> <li>GUI – Screen entry</li> <li>RTFX – Real time</li> <li>SYST – Auto generated from trade</li> </ul>	579	String	GUI
	Qty	Quantity	53	Quantity	100
	AvgPx	Transaction price (May be negative for futures only)	6	Price	600
	AvgPxInd	Average pricing indicator: <ul style="list-style-type: none"> <li>0 – No average pricing</li> <li>1 – Trades are part of an average price group</li> </ul>	819	Integer	0
	Ccy	Premium currency	15	Currency	USD
	Txt	Originator remarks	58	String	
→ OrdAlloc					
	ClOrdId	Order ID	11	String	FHUR03215648
→ AllExc	The AllExc block repeats for each Trade ID provided.				
	TrdID	Exchange trade ID	1003	String	B778HB089UI
	CustOrdHdInst	Execution Source	1031	String (multi-value)	W
	FirmTrdID	Firm trade ID assigned by the CM	1041	String	7865FTR
→ Instrmt					
	Sym	Symbol	55	String	VX



Give ups					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	ID	Symbol	48	String	VX
	Src	ID source: ■ 8 – Exchange	22	String	8
	Exch	Security trade source (MIC)	207	String	XCBF
	CFI	CFI code	461	String	FFICSX
	MMY	Series/contract year, month, date (YYYYMMDD)	200	MonthYear	20220518
	MatDt	Expiration date (YYYY-MM-DD)	541	LocalMktDate	2022-05-18
	Mult	Multiplier	231	Decimal	100
	StrkPx	Strike price (decimal format) (options on futures only)	202	Price	60.00
	StrkCcy	Strike currency (options on futures only)	947	Currency	USD
	StrkMult	Strike multiplier (options on futures only)	967	Decimal	1.00
	StrkValu	Strike value (options on futures only)	968	Decimal	100
→ Amt					
	Typ	Amount type: ■ PREM – Premium amount (options on futures only)	707	String	PREM
	Amt	Extended premium (options on futures only)	708	Amount	6000005
→ Pty					
	ID	Clearing member number	448	String	00123
	R	Party role: ■ 1 – Give up clearing firm	452	Integer	1
→ → Sub					
	ID	Account type: ■ C – Customer ■ F – Firm ■ M – Market maker	523	String	C
	Typ	Party role: ■ 26 – Position account type	803	Integer	26

Give ups					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
→ Pty					
	ID	Account ID (sub-account)	448	String	ZZZ
	R	Party role: ■ 38 – Position account	452	Integer	38
→ Pty					
	ID	Executing broker	448	String	811F
	R	Party role: ■ 2 – Executing broker	452	Integer	2
→ Pty					
	ID	Actionable/Customer ID	448	String	ABC123
	R	Party role: ■ 24 – Actionable/customer ID	452	Integer	24
→ Alloc	Note: The Alloc block is always used to refer to the take up clearing member who is receiving the position or trade. The Alloc block may repeat if the give up was sub-allocated. In this case the Alloc block shows the quantity and tier account details for each sub-allocation.				
	Txt	Contra remarks	161	String	GU414
	Qty	Quantity to be given up to specific sub-account	80	Quantity	100
	AllocPosEfct	Open/close code (contra): ■ C – Close ■ O – Open	1047	String	C
	IndAllocID2	OCC Trade ID	989	String	5874
→ → Pty					
	ID	Clearing group name	448	String	OCC
	R	Party role: ■ 21 – Clearing organization	452	Integer	21
→ → Pty					
	ID	Clearing member number	448	String	00897
	R	Party role: ■ 18 – Take up clearing firm	452	Integer	18
→ → → Sub					

Give ups					
Report/Component Block	Field Name	Data/Enumerations	FIX Tag	Data Type	Sample
	ID	Account type: <ul style="list-style-type: none"> <li>■ C – Customer</li> <li>■ F – Firm</li> <li>■ M – Market maker</li> </ul>	523	String	C
	Typ	Type: <ul style="list-style-type: none"> <li>■ 26 – Position account type</li> </ul>	803	Integer	26
→ → Pty					
	ID	Account ID (sub account)	448	String	ABC123
	R	Party role: <ul style="list-style-type: none"> <li>■ 38 – Position account</li> </ul>	452	Integer	38
→ → Pty					
	ID	Actionable/customer ID	448	String	XYZ789
	R	Party role: <ul style="list-style-type: none"> <li>■ 24 – Actionable/customer ID</li> </ul>	452	Integer	24

## Implementation Considerations

### Processing Give ups

Give up messages are created in real time. Regardless of how these messages are delivered to a recipient (real time or batch file), recipients must be able to process each message as either an unclaimed, claimed, rejected, cancelled, reversed or invalid transaction.

Give ups may be accepted by the take up clearing member up to five business days after the give up submitted the original transaction. Therefore, recipients must be aware that the Trade Date provided on a claim may be up to five business days prior to the current business date.

### Canceling an Unclaimed Give up

A give up clearing member may choose to cancel an unclaimed give up using the GUI only. Canceling an unclaimed give up is effective immediately and a message is sent to both sides.

### Reversing a Claimed Give up

The reversal of a claimed give up may be entered by either side using the GUI only. The contra party must accept the reversal for the give up to be reversed. If the contra rejects or does not respond by end of business, the give up is not reversed. Accepting and rejecting a reversal is performed on the GUI only. Only a processed reversal generates DDS, one for each side of the original give up. The reversal is identified using Tag 87 - Stat = 7 (Reversed) and the give up being reversed is identified using Tag 70, the Allocation Report ID of the original give up.

### Sub allocated Give ups

When a give up clearing member sub allocates a give up to multiple take ups, the give up receives a message for each sub allocated lot. Each take up receives a message only pertaining to their sub allocated lot.

### Give up Scenarios

Give up Scenarios			
Scenario	Stat	TransTyp	RptTyp
Unclaimed – to Give up	3 – Received, not yet processed	0 - New	2 – Preliminary confirm
Unclaimed – to Take up	3	0	11 – Accept pending
Claimed – to Give up	0 – Accepted, successfully processed	0	9 – Allocation accepted
Claimed – to Take up	0	0	12 – Allocation completed
Rejected by Take up – to Give up	1 – Reject, successfully processed	0	10 - Reject
Rejected by Take up – to Take up	1	0	12

Give up Scenarios			
Scenario	Stat	TransTyp	RptTyp
Unclaimed Cancelled by Give up – to Give up	0	2 - Cancel	12
Unclaimed Cancelled by Give up – to Take up	0	2	12
Reversal of Claimed Give up – to Originator	7 - Reversed	0	9
Reversal of Claimed Give up – to Contra	7	0	12
Invalid (rejected by OCC) Give up message – to Give up	5 – Rejected by OCC	0	8 – Request to OCC
Invalid (rejected by OCC) Take up Claim/Reject message – to Take up	5	0	8
Invalid System Generated Allocation – to Originator	5	0	8

## IndAllocID2 Tag

The IndAllocID2 is the OCC Trade ID. Depending on whether your firm is the give up or take up firm, different data will be displayed.

- For give up firms, this ID is populated with the OCC Trade ID of the trade being given-up.
- For take up firms, it will be blank while unclaimed. Once accepted, it reflects the new OCC Trade ID of the newly created trade. Clearing Members will use this new ID submit further give ups and regulators/exchanges should store this to track further give ups.

## Uniqueness Checking

The nature of give up processing creates the possibility of multiple DDS messages per give up. Therefore, recipient systems must review the fields and check for uniqueness against previously processed messages for the current processing day. In addition, due to the fact the clearing members may use give ups to internally transfer positions within accounts; multiple messages with the same RptID are created. The RptTyp field can be used to determine if the message is for the originator account or the contra account, but typically the following fields may be used to determine uniqueness.

- RptID – Unique ID created for each message
- BizDt – Clearing business date
- RptTyp –Used if the originator and contra sides are the same to determine which party blocks to review

## Invalid Messaging

If OCC is unable to process a FIXML give up input message due to failing a business validation such as invalid symbol or account, OCC returns an Allocation Report message to the message sender, marking it as invalid (i.e., rejected by OCC).

Invalid give up: OCC rejects an Allocation Instruction message if the give up clearing member:

- References an inactive or unknown symbol
- Is trying to give up to an account ineligible to clear the product or an unknown account
- Includes invalid Trade IDs on the message
- Sends quantities for multiple take ups which do not sum correctly to the overall give up quantity

OCC sends an Allocation Report message to notify the originator of the invalid give up.

Invalid take up: OCC rejects the Allocation Report Acknowledgement message where the take up clearing member is claiming or rejecting the give up if the message:

- Does not carry the correct ID for the transaction
- The quantity or clearing member number does not match the original give up

When this happens, OCC sends an Allocation Report message to the submitter.

In both cases, the invalid Allocation Report message repeats the data that was submitted. In the case of an invalid take up (Allocation Report Acknowledgment), the original message only carries take up information, so the message returned does not carry the give up's information. The Allocation Report for invalid messages carries the RptID that was originally submitted. This tag could be used for clearing member reconciliation and problem resolution.

Note for both the give up and take up messages: if the message contains bad FIXML and cannot be parsed, OCC does not send a message back to the originator.

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# Revision History

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Edition	Date	Edition Updates
1.0	11/28/2022	Initial edition.
1.1	12/19/2023	Added execution time (TrdRegTS) format information for the Trades and Trade Updates messages.
1.2	02/16/2024	Removed reference to treatment of insignificant white space characters from the "What's New with the Ovation Platform?" table.