Order Routing Interface (ORI) for Equity

Technical Specifications

Version 2.1.2

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Update Summary

NO.	VERSION	DATE	CHANGE
1	1.91 (Beta Version)	18th July 2008	Updated to X-stream engine interface
2	1.92	4th December 2008	Updated some tag and its value
3	1.94	31st March 2011	Updated Comments and Valid value for tag 376 (Trading ID)
			Updated valid value for tag 58 Negotiation Deal Request (Crossing)
			Updated some tag and its value
			Add new message specification
			Delete message that is not currently use
4	1.95	13th September 2011	Add Mass Order Cancel message, Liquidity Provider Order message, and Liquidity Provider Order Cancel message
			Updated comment and valid value tag 38 (OrderQty) and 65 (SymbolSfx) for Order Cancel Request
5	2.0	7th November 2011	Add comment for tag 6002 (CurrentPassword) in Logon Request message
			Add tag 6090 (LogonReply) and tag 6091 (LogonDesc) for Logon Message
			Add valid value margin for tag 54 (Side) in New Order – Single (Advertisement) Message
			Make length field for tag 55 (Symbol) consistent for all messages
			Add tag 11 (BrokerRef) in value tag 6065 (RefErrorCode) for all MessageType U7
			Change JONES time to JATS time for tag (17) ExecID for all messages
			Change comment for tag 37 (OrderID) in Negotiation Deal Reply BAD Or Neg. Deal Confirmation BAD
			Add Appendix C List field type

6	2.1.0	18th October 2017	a. Update description for tag 6090 = 2.
			b. Update valid value tag 54 for order reply ok and new order reply bad.
			c. Change data type tag 11 and tag 60
			d. Add board 0OD (Pasar Regular Odd-Lot)
			e. Change valid value for tag 6090
			f. Add price stabilization value for tag 54 (Side) in New Order – Single (Advertisement) Message.
			g. Add tag 172 and 64 for • Negotiation Deal Request • Negotiation Reply OK • Negotiation Deal Amend • Negotiation Deal Amend Reply OK • Negotiation Deal Confirmation Info • Negotiation Deal Amended Info
			h. Add Price Stabilization and Margin value for tag 54 (side) in New Order Reply Ok, New Order Reply Bad, Order Amend Request, Order Amend Reply Ok, Order Cancel Request
7	2.1.1	2nd November 2020	a. Change trading hours
			b. Added comment on tag 37 (OrderID) "The orderID will be reset at the start of each trading day"
8	2.1.2	20th April 2021	Changes of available Order Method (New Use)

Table of Content

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Introduction

The IDX Brokerage Server Service provides a service of receiving data, which are transactions to be transmitted from brokerage server to the IDX computer. The main purpose of the data transmission is to send automated order messages. The messages must comply to a certain specification of stock exchange information exchange protocol. This document is intended to be the specification.

The data transmission service is available every market day on trading session. On Monday until Thursday the morning trading session starts at 09:00 and ends at 11:30. The afternoon trading session starts at 13:30 and ends at 15:00. On Friday morning trading session starts at 09:00 and ends at 11:30, afternoon trading session starts at 13:30 and ends at 15:00.

I. Information Exchange Protocol Concept

This concept is developed to facilitate the electronic exchange of information related to securities transactions. It is basically adopted from the FIX (Financial Information Exchange) protocol version 4.2, and used partially for IDX purposes. It is used to communicate between exchange's trading engine and broker's brokerage information system engine. To support compatibility, TCP/IP protocol layer is used as transport protocol. Any physical medium that supports TCP/IP can be used to deliver information.

General format for each message:

Header	DATA	Trailer

The general format of a FIX message is a standard header followed by the message body fields and terminated with a standard trailer. Each message is constructed of a stream of <tag>=<value> fields. Each item/field/column in the message is separated by character ASCII <SOH> (001).

Examples of the messages in their full-length format can be seen at the Appendix A of this document.

Data types are mapped to ASCII strings as follows:

- int: Sequence of digits without commas or decimals and optional sign character (ASCII characters "**-**" and "**0**" - "**9**"). The sign character utilizes one byte (i.e. positive int is "**99999**" while negative int is "**-99999**"). Examples: 723 in field 21 would be mapped int as |**21=723**|.
  -723 in field 12 would be mapped int as |**12=-723**|
- float: Sequence of digits with optional decimal point and sign character (ASCII characters "**-**", "**0**" - "**9**" and "**.**"); the absence of the decimal point within the string will be interpreted as the float representation of an integer value. All float fields must accommodate up to fifteen significant digits.
- char: Alpha-numeric free format strings, can include any character or punctuation except the delimiter. All char fields are case sensitive (i.e. **jakarta** is not the same with **Jakarta**).
- time: Time/date combination in YYYYMMDD-HH:MM:SS format, colons and dash required.   Valid values: YYYY = 0000-9999, MM = 01-12, DD = 01-31, HH = 00-23, MM = 00-59, SS = 00-59.
- date: Date in YYYYMMDD format. Valid values: YYYY = 0000-9999, MM = 01-12, DD = 01-31.

The protocol assumes complete ordered delivery of messages between parties. Implementers should consider this when designing message gap fill processes. Two options exist for dealing with gaps, either request all messages subsequent to the last message received or ask for the specific message missed while maintaining an ordered list of all newer messages. For example, if the receiver misses the second of five messages, the application could ignore messages 3 through 5 and generate a resend request for messages 2 through 5. Another option would involve saving messages 3 through 5 and resending only message 2. In both cases, messages 3 through 5 should not be processed before message 2.

The protocol is based on an optimistic model; normal delivery of data is assumed (i.e. no acknowledgment of individual messages) with errors in delivery identified by message sequence number gaps. Each message is identified by a unique sequence number. It is the receiving application's responsibility to monitor incoming sequence numbers to identify message gaps for response with resend request messages.

The protocol does not support individual message acknowledgment. However, a number of application messages require explicit application level acceptance or rejection. Orders, cancel requests, cancel/replace requests and allocation require specific application level response, execution reports can be rejected with the DK message but do not require explicit acceptance.

II. ORI Header

Tag	Field Name	Comments	Valid Value
8	BeginString	FIX.4.2 (*Always unencrypted, must be first field in message*)	FIX.4.2-JSX
9	BodyLength	(*Always unencrypted, must be second field in message*)	Calculate by system
35	MsgType	(*Always unencrypted, must be third field in message*)	Depend on Msg to be sent.
49	SenderCompID	(*Always unencrypted*)	Sender FIX Engine ID (FIX Engine Setup)
56	TargetCompID	(*Always unencrypted*)	Receiver FIX Engine ID (FIX Engine Setup)
34	MsgSeqNum	*(Can be embedded within encrypted data section.)*	*FIX Engine supplied.*
50	SenderSubID	*(Can be embedded within encrypted data section.)*	*Reserved*
142	SenderLocationID	Sender's LocationID (i.e. geographic location and/or desk) *(Can be embedded within encrypted data section.)*	Trader IP Address supplied by Broker.
52	SendingTime	*(Can be embedded within encrypted data section.)*	*Timestamp from FIX Engine*

III. Administrative Messages

1. LOGON

Logon process flow as follow:

1) Broker's application sends Logon Request message to JONEC (see Logon Request's table below).
2) Broker's application will receive Logon Reply OK1 message from JONES via JONEC (see Logon Reply OK1's table below)
3) Broker's application will receive second message from JATS via JONES and JONEC with condition as follow:
   a) If logon is succesfull, broker's application will receive Logon Reply OK2 message (see Logon Reply OK2's table below).
   b) If logon is rejected, broker's application will receive Logon Reply BAD message (see Logon Reply BAD's table below).
4) Session will be disconnected.

Summary:
- Logon Reply OK will consist of two Logon messages (MsgType=A).
- Logon Reply Bad change from MsgType=A to MsgType=5.

Messages structures are as follow:

- **Logon Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = A (Logon)		
98	EncryptMethod	No encryption	0	
108	HeartBtInt	FIX Engine setup (seconds) Supplied by broker	45	
6001	UserID	ID The User logged onto the JATS	User ID	See Appendix C
6002	CurrentPassword	The User Current password. Password must meet complexity requirements. Must be combination of alphanumeric characters.	Supplied by broker	
	Standard Trailer			

- **Logon Reply OK1**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = A (Logon)		
98	EncryptMethod	No encryption	0	See Appendix C
108	HeartBtInt	*FIX Engine setup (seconds)*	45	
	Standard Trailer			

- **Logon Reply OK2**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = A (Logon)		
98	EncryptMethod	No encryption	0	
108	HeartBtInt	*FIX Engine setup (seconds)*	45	
6001	UserID	*ID The User logged onto the JATS*	*NO*	
6090	LogonReply	Is required to change Password	1 = Do not need to change password 2 = Current password expires in n day(s) or Password-change-required (should change password before order entry) 3 = password expired. Password change required for user. user must change password first, if user doesn't change password, user will be forced logout. *Password must meet:* - *complexity requirements.* - *combination of alphanumeric characters.* - *full length as specified.*	See Appendix C
6091	LogonDesc	Logon Description	JATS Message	
	Standard Trailer			

- **Logon Reply BAD**

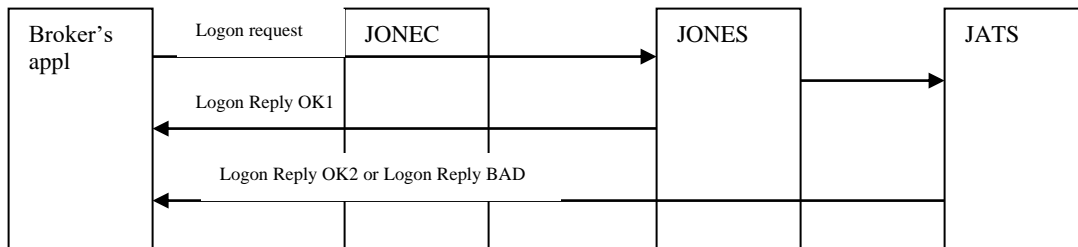| Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 5 (Logout)		
58	Text	Error message	*Error message*	See Appendix C
	Standard Trailer			

2. Logout

Logout Process as follow:

1) Broker's application sends Logout request message to JONEC (see Logout Request below). Msg Type = 5, with field Text=UserId.
2) Broker's application receives Logout Reply OK from JONES (see Logout Reply OK below). MsgType=5 with field Text="Confirm Logout". And session disconnected.
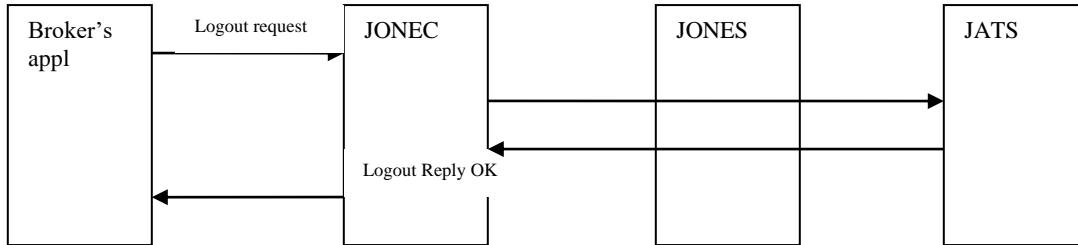
Note:
- Logout Reply Bad is not required.

- **Logout Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 5 (Logout)		
58	Text	ID The User logged onto the JATS	<userid>	See Appendix C
	Standard Trailer			

- **Logout Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 5 (Logout)		
58	Text	Return message	"confirming logout"	See Appendix C
	Standard Trailer			

3. Change Password

Process flow as follow:
1) Broker's application sends Change Password Request to JONEC (see Change Password Request's table below)
2) Broker's application receives Change Password Reply OK or Change Password Reply BAD (see Change Password Reply OK's or Change Password Reply BAD's table below)

- **Change Password Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U1		
6001	UserID	*ID The User logged onto the JATS*	User ID	
6002	Current Password	*The User Current password*		See Appendix C
6003	New Password	*The User New password*		
6004	Return Value	" "	" " (Single Space)	
	Standard Trailer			

- **Change Password Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U1 (Change Password)		
6001	UserID	*ID The User logged onto the JATS*	" " (Single Space)	
6002	Current Password	*The User Current password*	" " (Single Space)	See Appendix C
6003	New Password	*The User New password*	" " (Single Space)	
6004	Return Value	Text	"User password successfully changed"	
	Standard Trailer			

- **Change Password Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U1		
6001	UserID	*ID The User logged onto the JATS*	" " (Single Space)	
6002	Current Password	*The User Current password*	" " (Single Space)	See Appendix C
6003	New Password	*The User New password*	" " (Single Space)	
6004	Return Value	Text Error message		
	Standard Trailer			

IV. Application Messages

The broker's application will either send both tag 65 (SymbolSfx) and tag 48 (SecurityID) or tag 65 (SymbolSfx) only for sending message because it will be rejected by the system if it is inconsistent.

4. New Order - Single / Advertisement

- **New Order Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = D (New Order – Single)		
11	ClOrdID	*Unique identifier of the order as assigned by Broker.*	Broker reference	
109	ClientID	*Used for firm identification in third-party transactions.*	User ID	
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	
21	HandlInst	*Instructions for order handling on Broker trading floor*	*=1 for normal order* *=2 for advertisement*	
18	ExecInst	*Order Method*	See Order Method Table	
55	Symbol	*Ticker symbol*	Supplied by broker	See Appendix C
65	SymbolSfx	*Board.*	for normal order : 0RG : Regular Market 0TN : Cash Market 0OD : *Odd-Lot* Regular Market Note: '0+board code' Supplied by broker 0RG, 0TN (without space). for advertisement : 0NG : Negotiation Market	
48	SecurityID	*Security number. Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*	Security number from JATS.	

Tag	Field Name	Comments	Valid Value	Type
54	Side	*Indicating a buy, sell, short sell, margin order or Price Stabilization*	1 = buy 2 = sell 5 = sell short M = margin P = Price Stabilization	
60	TransactTime	*Time this order request was initiated/released by the trader.* *Current time* *Supplied by broker.*	yyyyMMdd-HH:mm:ss.SSS	
38	OrderQty	*Either CashOrderQty or OrderQty is required.*	Order quantity in LOT Advertisement quantity in share	
40	OrdType	*1 – Market Order* *7 – Limit or Better*	1 – Market Order or 7 – Limit or Better	
44	Price	*Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.*	Order price	See Appendix C
99	StopPx	*Required for OrdType = "Stop" or OrdType = "Stop limit".*	Order price	
59	TimeInForce	*Absence of this field indicates Day order.*	See order method table 0 – Day order 3- IOC 4- FOK S – Session order	
432	ExpireDate	*Conditionally required if TimeInForce = GTD and ExpireTime is not specified.*	Date	
58	Text	*Quantity of recurring order*	Number of Hidden Quantity (future use)	
440	ClearingAccount	*Clearing Account Number*	Set to " " (single space)	
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

Order Method Table

No	Order Method				OrdType <40>	ExecInst <18>	TimeInForce <59>	Remark
1	Market	Stop Order	Split	Blank	1	-	-	Not Applicable
2	Market	Non-stop Order	Split	Blank	1	-	-	Future use
3	Market	Stop Order	Split	Day	1	-	0	Not Applicable
4	Market	Non-stop Order	Split	Day	1	-	0	New use
5	Market	Stop Order	Split	GTC	1	-	1	Not Applicable

No	Order Method				OrdType <40>	ExecInst <18>	TimeInForce <59>	Remark
6	Market	Non-stop Order	Split	GTC	1	-	1	Future use
7	Market	Stop Order	Split	IOC	1	-	3	Not Applicable
8	Market	Non-stop Order	Split	IOC	1	-	3	New use
9	Market	Stop Order	Split	FOK	1	-	4	Not Applicable
10	Market	Non-stop Order	Split	FOK	1	-	4	New use
11	Market	Stop Order	Split	GTD	1	-	6	Not Applicable
12	Market	Non-stop Order	Split	GTD	1	-	6	Future use
13	Market	Stop Order	Split	Session	1	-	S	Not Applicable
14	Market	Non-stop Order	Split	Session	1	-	S	New use
15	Market	Stop Order	AON	Blank	1	G	-	Not Applicable
16	Market	Non-stop Order	AON	Blank	1	G	-	Future use
17	Market	Stop Order	AON	Day	1	G	0	Not Applicable
18	Market	Non-stop Order	AON	Day	1	G	0	Future use
19	Market	Stop Order	AON	GTC	1	G	1	Not Applicable
20	Market	Non-stop Order	AON	GTC	1	G	1	Future use
21	Market	Stop Order	AON	IOC	1	G	3	Not Applicable
22	Market	Non-stop Order	AON	IOC	1	G	3	Future use
23	Market	Stop Order	AON	FOK	1	G	4	Not Applicable
24	Market	Non-stop Order	AON	FOK	1	G	4	Future use
25	Market	Stop Order	AON	GTD	1	G	6	Not Applicable
26	Market	Non-stop Order	AON	GTD	1	G	6	Future use
27	Market	Stop Order	AON	Session	1	G	S	Not Applicable
28	Market	Non-stop Order	AON	Session	1	G	S	Future use
29	Limit	Stop Order	Split	Blank	4	-	-	Future use
30	Limit	Non-stop Order	Split	Blank	7	-	-	Future use
31	Limit	Stop Order	Split	Day	4	-	0	Future use
32	Limit	Non-stop Order	Split	Day	7	-	0	Current use
33	Limit	Stop Order	Split	GTC	4	-	1	Future use
34	Limit	Non-stop Order	Split	GTC	7	-	1	Future use
35	Limit	Stop Order	Split	IOC	4	-	3	Future use
36	Limit	Non-stop Order	Split	IOC	7	-	3	New use
37	Limit	Stop Order	Split	FOK	4	-	4	Future use
38	Limit	Non-stop Order	Split	FOK	7	-	4	New use
39	Limit	Stop Order	Split	GTD	4	-	6	Future use
40	Limit	Non-stop Order	Split	GTD	7	-	6	Future use
41	Limit	Stop Order	Split	Session	4	-	S	Future use
42	Limit	Non-stop Order	Split	Session	7	-	S	Current use
43	Limit	Stop Order	AON	Blank	4	G	-	Future use
44	Limit	Non-stop Order	AON	Blank	7	G	-	Future use
45	Limit	Stop Order	AON	Day	4	G	0	Future use
46	Limit	Non-stop Order	AON	Day	7	G	0	Future use
47	Limit	Stop Order	AON	GTC	4	G	1	Future use
48	Limit	Non-stop Order	AON	GTC	7	G	1	Future use
49	Limit	Stop Order	AON	IOC	4	G	3	Future use
50	Limit	Non-stop Order	AON	IOC	7	G	3	Future use
51	Limit	Stop Order	AON	FOK	4	G	4	Future use
52	Limit	Non-stop Order	AON	FOK	7	G	4	Future use
53	Limit	Stop Order	AON	GTD	4	G	6	Future use

No	Order Method				OrdType <40>	ExecInst <18>	TimeInForce <59>	Remark
54	Limit	Non-stop Order	AON	GTD	7	G	6	Future use
55	Limit	Stop Order	AON	Session	4	G	S	Future use
56	Limit	Non-stop Order	AON	Session	7	G	S	Future use

- **New Order Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	OrderID is required to be unique for each chain of orders. The orderID will be reset at the start of each trading day	JATS order number	
11	ClOrdID	Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.	Broker reference	
17	ExecID	Must be unique for each Execution Report message. JATS time stamp	hhmmsszzz (zzz in millisecond)	
20	ExecTransType	Identifies transaction type	"0" = new	
150	ExecType	Describes the type of execution report. Same possible values as OrdStatus.	"0" = new	See Appendix C
39	OrdStatus	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx	"0" = new or "1" for partially matched or "2" for fully matched	
55	Symbol	Ticker Symbol	See security code. Example: "TLKM"	
54	Side	Indicating a buy,sell,short sell, margin order or Price Stabilization	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	
38	OrderQty	Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.	Accepted order quantity in LOT Supplied by JATS Order quantity in LOT Advertisement quantity in share	
44	Price	Required if specified on the order	Accepted order price Supplied by JATS	

Tag	Field Name	Comments	Valid Value	Type
151	LeavesQty	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	Balance quantity Supplied by JATS	
14	CumQty	*Currently executed shares for chain of orders.*	Matched quantity Supplied by JATS	
6	AvgPx	*Not Applicable*	0 Supplied by fix engine	
21	HandlInst	*1 - normal order, or* *2 - adv*	1 - normal order, or 2 – adv	
31	LastPx	*Price*	Price, = 0	
32	LastShares	*Matched Qty*	Matched Qty, = 0	
	Standard Trailer			

- **New Order Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders.*	Order number = "000000000000" (no JATS order number)	
11	ClOrdID	*Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.*	Broker reference	
17	ExecID	*Must be unique for each Execution Report message*	JATS time stamp (hhmmsszzz) Zzz= milisecond	See Appendix C
20	ExecTransType	*Identifies transaction type*	0 = New 1 = Cancel 2 = Correct 3 = Status	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=8 (rejected)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=8 (rejected)	
55	Symbol	*Ticker Symbol*	See security code. Example: "TLKM"	

54	Side	*Indicating a buy,sell,short sell, margin order or Price Stabilization*	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	
151	LeavesQty	*No LeavesQty* *Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	0	
14	CumQty	*Currently executed shares for chain of orders.*	=0	
6	AvgPx	*Not Applicable*	=0	
21	HandlInst	*1 for normal order, 2 - adv*	1 or 2	
58	Text	Error Message	Error Message	
31	LastPx	*Price*	0	
32	LastShares	*Matched Qty*	0	
	Standard Trailer			

- **Matched Order Reply**
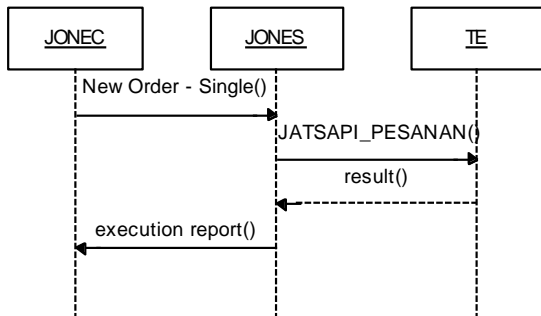
Tag	Field Name	Req'd	Comments	Valid Value	Type
	Standard Header	Y	MsgType = 8 (Execution Report)		
37	OrderID	Y	*OrderID is required to be unique for each chain of orders.* *The orderID will be reset at the start of each trading day*	JATS order number	See Appendix C

Tag	Field Name	Req'd	Comments	Valid Value	Type
11	ClOrdID	N	*Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.*	Broker reference	
17	ExecID	Y	Must be unique for each Execution Report message	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	Y	*=0 (new)*	0	
150	ExecType	Y	*Describes the type of execution report. Same possible values as OrdStatus. =0 (new)*	0	
39	OrdStatus	Y	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	"1" for partially matched or "2" for fully matched	
55	Symbol	Y	*Ticker Symbol*	See security code. Example: "TLKM"	
54	Side	Y	*Side of order*	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	
38	OrderQty	N	*Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.*	Accepted order quantity Supplied by JATS Order quantity in LOT Advertisement quantity in share	
44	Price	N	*Required if specified on the order*	Matched price	
151	LeavesQty	Y	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	Balance quantity Supplied by JATS	
14	CumQty	Y	*Currently executed shares for chain of orders.*	Matched quantity Supplied by JATS	
6	AvgPx	Y	*Not Applicable*	0	
21	HandlInst	N	*1 for normal order, 2 - adv*	1 or 2	
31	LastPx		*Price*	Price	
32	LastShares		*Matched Qty*	Matched Qty	
	Standard Trailer	Y			

5. Order Cancel/Replace Request (a.k.a. Order Modification Request)
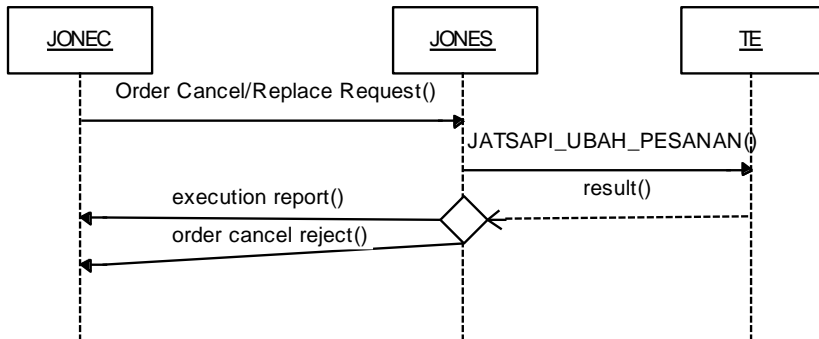
- **Order Amend Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = G (Order Cancel / Replace)		
37	OrderID	*Unique identifier of most recent order as assigned by broker.*	JATS order number	
109	ClientID	*Used for firm identification in third-party transactions (should not be a substitute for OnBehalfOfCompID/DeliverToCompID).*	User ID	
41	OrigClOrdID	*ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	Supplied by Broker: It represents old broker order number (old broker ref).	
11	ClOrdID	*Unique identifier of replacement order as assigned by institution. Note that this identifier will be used in ClOrdID field of the Cancel Reject message if the replacement request is rejected.*	Supplied by Broker: It represents new broker order number (new broker reff).	See Appendix C
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	
21	HandlInst	*Instructions for order handling on Broker trading floor*	1 for normal order, 2 - adv	
55	Symbol	*Must match original order*	See security code. Example: "TLKM" Supplied by broker.	
54	Side	*Must match original side, however, Buy and Buy Minus can be interchanged as well as Sell and Sell Plus*	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	

Tag	Field Name	Comments	Valid Value	Type
60	TransactTime	*Time this order request was initiated/released by the trader.*	yyyyMMdd-HH:mm:ss.SSS Supplied by Broker	
38	OrderQty	*Either CashOrderQty or OrderQty is required. Note that either, but not both, CashOrderQty or OrderQty should be specified. Should be the "Total Intended Order Quantity" (including the amount already executed for this chain of orders)*	New order quantity Order quantity in LOT Advertisement quantity in share	
40	OrdType	*Must match original OrdType.*	See Order Method Table	
44	Price	*Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.*	New price	See Appendix C
59	TimeInForce	*Absence of this field indicates Day order.* *See Order Method Table*	See Order Method Table	
432	ExpireDate	*Conditionally required if TimeInForce = GTD and ExpireTime is not specified.*	Expire date of Order	
58	Text	*Hidden quantity*	Number of Hidden Quantity (future use)	
440	ClearingAccount	*Clearing Account Number*	Set to " " (single space)	
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Order Amend Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders. = New ORDERNO* *The orderID will be reset at the start of each trading day*	New JATS order number	
11	ClOrdID	*Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.*	Broker Reference	See Appendix C
17	ExecID	*Must be unique for each Execution Report message*	JATS time stamp (hhmmsszzz) Zzz= milisecond	

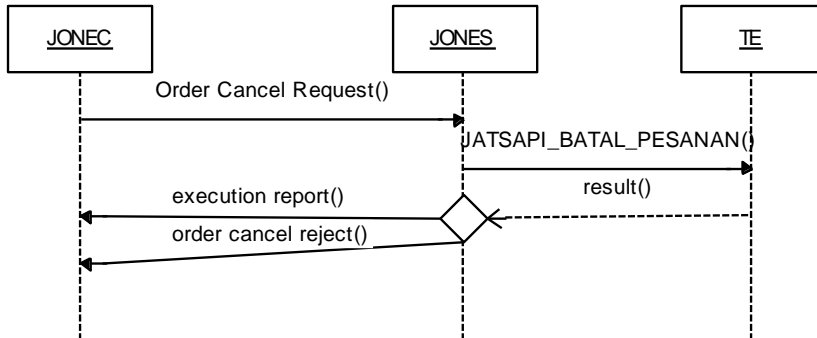| Tag	Field Name	Comments	Valid Value	Type
20	ExecTransType	*Identifies transaction type*	0 = New 1 = Cancel 2 = Correct/Amend 3 = Status Valid values: 2	
19	ExecRefID	*BrokerRef*	BrokerRef If tag 20 = 0 then this value is space ' '	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=5 (replaced/Order replacement)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=5 (replaced/Order replacement)	
55	Symbol	*Ticker Symbol .*	See security code. Example: "TLKM"	
54	Side	*Side of order*	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	
38	OrderQty	*Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.*	New Qty Order quantity in LOT Advertisement quantity in share	See Appendix C
44	Price	Required if specified on the order	Accepted order price	
151	LeavesQty	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	Balance qty. Supplied by JATS	
14	CumQty	*Currently executed shares for chain of orders.*	Matched qty. Supplied by JATS	
6	AvgPx	*Not Applicable*	0	
21	HandlInst	*1 for normal order, 2 - adv*	1 for normal order, 2 - adv	
31	LastPx	*Price*	Price	
32	LastShares	*New Qty*	New Qty	
	Standard Trailer			

- **Order Amend Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 9 (Cancel Reject)		
37	OrderID	*If CxlRejReason="Unknown order", specify "NONE".*	Order number="000000000000" (no JATS order number)	
11	ClOrdID	*Unique order id assigned by institution to the cancel request or to the replacement order.*	Broker Reference	
41	OrigClOrdID	*ClOrdID which could not be canceled/replaced. ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	Set to " " (blank)	See Appendix C
39	OrdStatus	*OrdStatus value after this cancel reject is applied.*	=8 (Rejected)	
434	CxlRejResponseTo	*Identifies the type of request that a Cancel Reject is in response to.*	1 - Order Cancel Request 2 - Order Cancel/Replace Request Valid values: 2	
58	Text	Error Message Text	Error Message	
	Standard Trailer			

6. Order Cancel Request

- **Order Cancel Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = F (Order Cancel Request)		
41	OrigClOrdID	*ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	Supplied by broker. (broker old order number/old broker ref)	
37	OrderID	*Unique identifier of most recent order as assigned by broker.*	JATS order number.	
11	ClOrdID	*Unique ID of cancel request as assigned by the institution.*	Supplied by broker. (broker order number/broker ref)	
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	
109	ClientID	*Used for firm identification in third-party transactions (should not be a substitute for OnBehalfOfCompID/DeliverToCompID).*	*User ID*	See Appendix C
55	Symbol	*Ticker symbol*	Supplied by broker	
65	SymbolSfx	*Board.*	for normal order : 0RG : Pasar Regular 0TN : Pasar Tunai 0OD : Pasar Regular *Odd-Lot* Note: '0+board code' Supplied by broker 0RG, 0TN (without space). for advertisement : 0NG : Pasar Negosiasi	
48	SecurityID	*Security number from JATS.* *Request for list of securities number using Security Request message*	(see Security Request message table) Supplied by broker	

Tag	Field Name	Comments	Valid Value	Type
54	Side	*Side of order*	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	
60	TransactTime	*Time this order request was initiated/released by the trading system.*	yyyyMMdd HH:mm:ss.SSS Current time Supplied by broker.	
38	OrderQty	*1 for withdrawing normal order* *2 for withdrawing advertisement*	1 or 2	
58	Text	*Consist of 5 fields:* *1. Operation (A) char[1],* *2. Price Operation Code (=) char[1],* *3. Price N[10],* *4. User ID char[12]* *5. Broker ID char[12].*	Valid values: For field operation: A For field Price Operation Code: 2 For field Price : Order price which going to Cancel For field UserID : Owner User ID For field Broker ID: Owner Firm ID	See Appendix C
	Standard Trailer			

- **Order Cancel Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders.*	JATS order number which going to cancel.	
17	ExecID	*Must be unique for each Execution Report message.*	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	*Identifies transaction type*	Valid values: 1 = Cancel	
19	ExecRefID	*BrokerRef*	BrokerRef If tag 20 = 0 then this value is space ' '	See Appendix C
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=4 (cancelled)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=4 (cancelled)	
55	Symbol	Set to " " (Single space)	Set to " " (Single space)	
54	Side	Set to " " (Single space)	Set to " " (Single space)	

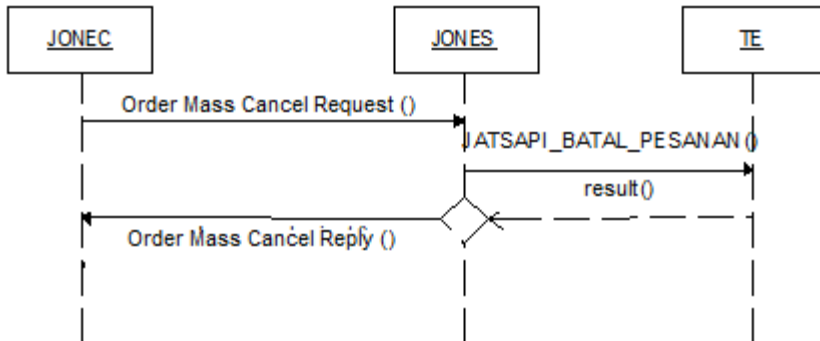| Tag	Field Name	Comments	Valid Value	Type
151	LeavesQty	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	0 Balance qty. Supplied by JATS	
14	CumQty	*Currently executed shares for chain of orders.*	0 Matched qty. Supplied by JATS	
6	AvgPx	*Not Applicable*	0	
21	HandlInst	*1 for normal order,* *2 - adv*	1 or 2	See Appendix C
58	Text	*Cancel Status OK*		
31	LastPx	*Price*	0	
32	LastShares	*New Qty*	0	
	Standard Trailer			

- **Order Cancel Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 9 (Order Cancel Reject)		
37	OrderID	*If CxlRejReason="Unknown order", specify "NONE".*	JATS order number which failed to cancel.	
11	ClOrdID	*Unique order id assigned by institution to the cancel request or to the replacement order.*	" "	
41	OrigClOrdID	*ClOrdID which could not be canceled/replaced. ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	" "	See Appendix C
39	OrdStatus	*OrdStatus value after this cancel reject is applied.*	=8 (Rejected)	
434	CxlRejResponseTo	*Identifies the type of request that a Cancel Reject is in response to.*	1 - Order Cancel Request 2 - Order Cancel/Replace Request Valid values: 1	
58	Text	Error Message Text	Error Message	
	Standard Trailer			

7. Order Mass Cancel

- **Order Mass Cancel Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = q1 (Order Cancel Request)		
11	ClOrdID	*Unique ID of cancel mass request as assigned by the institution.*	Supplied by broker.	
6067	MassWithdrawRequestType	Specifies the type of cancellation requested Valid value 2, 5 and 6 are not implemented yet	1 = Cancel orders for a security 2 = Cancel orders for an Underlying security 5 = Cancel orders for a SecurityType 6 = Cancel orders for a trading session 7 = Cancel all orders/firm 8 = Cancel particular board	
55	Symbol	*Ticker symbol*	Supplied by broker.	See Appendix C
65	SymbolSfx	*Board.*	for normal order : 0RG : Regular Market 0TN : Cash Market 0OD : *Odd-Lot* Regular Market Note: '0+board code' Supplied by broker 0RG, 0TN (without space). for advertisement : 0NG : Negotiation Market	
48	SecurityID	*Security number. Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*	Security number from JATS.	
336	TradingSessionID	Trading Session in which orders are to be canceled	(not implemented yet)	

Tag	Field Name	Comments	Valid Value	Type
54	Side	Optional qualifier used to indicate the side of the market for which orders are to be canceled. Absence of this field indicates that orders are to be canceled regardless of side. (not implemented yet)	1 = Buy 2 = Sell 5 = Sell short M = Margin P = Price Stabilization	See Appendix C
	Standard Trailer			

- **Order Mass Cancel Reply**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = r1 (Order Mass Cancel Reply)		
11	ClOrdID	*Unique ID of cancel mass request as assigned by the institution.* *In case connection is broken and broker reconnect to IDX, IDX can not provide previous ClOrdID*	Supplied by broker.	
6068	MassWithdrawResponse	Indicates the action taken by the counterparty order handling system as a result of the Cancel Request Valid value 2, 5 and 6 are not implemented yet	1 = Cancel orders for a security 2 = Cancel orders for an Underlying security 5 = Cancel orders for a SecurityType 6 = Cancel orders for a trading session 7 = Cancel all orders/firm 8 = Cancel particular board	See Appendix C
6069	MassWithdrawRejectReason	Required if MassCancelResponse=0	0 = Mass Cancel Not Supported 1 = Invalid or unknown Security 98 = Invalid or unknown Board 99 = Other	
58	Text			
	Standard Trailer			

8. Liquidity Provider Order

This order is matchable with other order, include normal order and other liquidity provider order
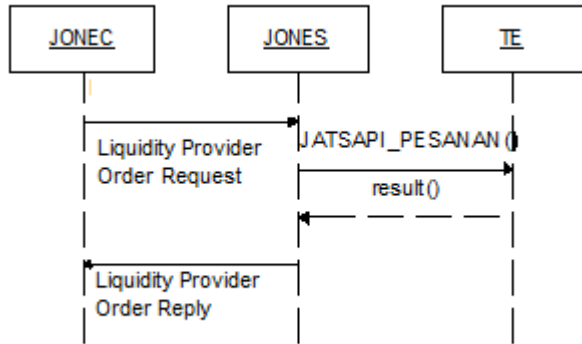
- **New Liquidity provider Order Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = S (Quote)		
117	QuoteID	*Unique identifier of the order as assigned by Broker.*	Broker Reference	
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	
55	Symbol	*Ticker Symbol*	See security code. Example: "TLKM7700ZZePWYYMMDD" TLKM: underlying securities 7700: strike price ZZ: issuer e: European style PW: Put Warrant YYMMDD: maturity date	See Appendix C
65	SymbolSfx	*Board*	0RG : Regular Market 0TN : Cash Market 0OD : *Odd-Lot* Regular Market Note: '0+board code' Supplied by broker 0RG, 0TN (without space).	
48	Security ID	*Security number. Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*		
62	ValidUntilTime	*Expiry Time* (not implemented yet)		
132	BidPx	*Bid Price*		See Appendix C
133	OfferPx	*Offer Price*		
134	BidSize	*Bid Quantity*		

Tag	Field Name	Comments	Valid Value	Type
135	OfferSize	*Offer Quantity*		
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Liquidity provider Order Reply**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = b (lowercase) (Quote Acknowledgement)		
117	QuoteID	*Unique identifier of the order as assigned by Broker.*	Broker Reference	See Appendix C
297	QuoteAckStatus	Status of the quote acknowledgement	Identifies the status of the quote acknowledgement. Valid values: 0-Accepted 5-Rejected	
300	QuoteRejectReason	Reason Quote was rejected.	Error message if quote rejected or successful	
	Standard Trailer			

9. Liquidity Provider Cancel Request

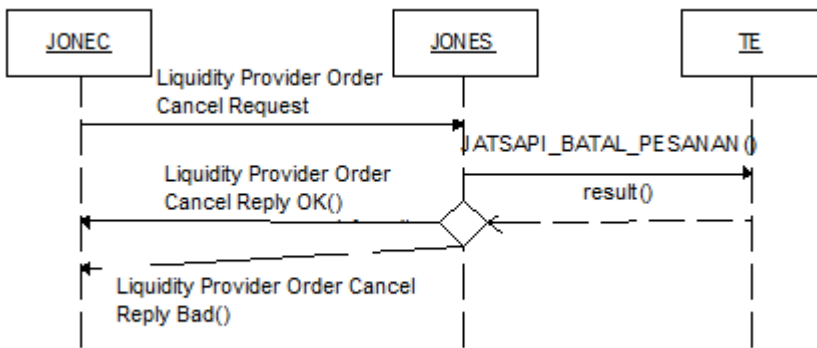
- **Liquidity provider Cancel Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = Z (Quote Cancel)		
117	QuoteID	*Unique identifier of the order as assigned by Broker.*	Broker Reference	See Appendix C
298	QuoteCancelType	Identifies the type of Quote Cancel request. Valid value 3 and 4 are not implemented yet	Identifies the type of quote cancel. Valid Values: 1 – Cancel for Security 3 – Cancel for Underlying Security 4 – Cancel All Quotes	

Tag	Field Name		Comments	Valid Value	Type
295	NoQuoteEntries		The number of securities whose quotes are to be canceled	1	
→	55	Symbol	*Ticker Symbol*	See security code. Example: "TLKM7700ZZePWYYMMDD" TLKM : underlying securities 7700: strike price ZZ: issuer e: European style PW: Put Warrant YYMMDD: maturity date	

→	65	SymbolSfx	*Board*	0RG : Regular Market
				 0TN : Cash Market
				 0OD : Odd-Lot Regular Market
				     Note: '0+board code'
				     Supplied by broker
				     0RG, 0TN (without space).	

→	48	Security ID	*Security number. Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*		
	Standard Trailer				

- **Liquidity provider Cancel Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = b (lowercase) (Quote Acknowledgement)		
117	QuoteID	*Unique identifier of the order as assigned by Broker.*	Broker Reference	
297	QuoteAckStatus	Status of the quote acknowledgement Valid value 3 and 4 are not implemented yet	Identifies the status of the quote acknowledgement. Valid values: 1-Canceled for Symbol(s) 3-Canceled for Underlying 4-Canceled All	See Appendix C
	Standard Trailer			

- **Liquidity provider Cancel Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = b (lowercase) (Quote Acknowledgement)		
117	QuoteID	*Unique identifier of the order as assigned by Broker.*	Broker Reference	
297	QuoteAckStatus	Status of the quote acknowledgement Valid value 3 and 4 are not implemented yet	Identifies the status of the quote acknowledgement. Valid values: 1-Canceled for Symbol(s) 3-Canceled for Underlying 4-Canceled All	See Appendix C

300	QuoteRejectReason	Reason Quote was rejected.	Valid values : 250 - if there are no orders matched with the given criteria to be withdrawn 2 - for invalid board, 313 - for invalid security	
	Standard Trailer			

10.   Negotiation Deal

- **Negotiation Deal Workflow**
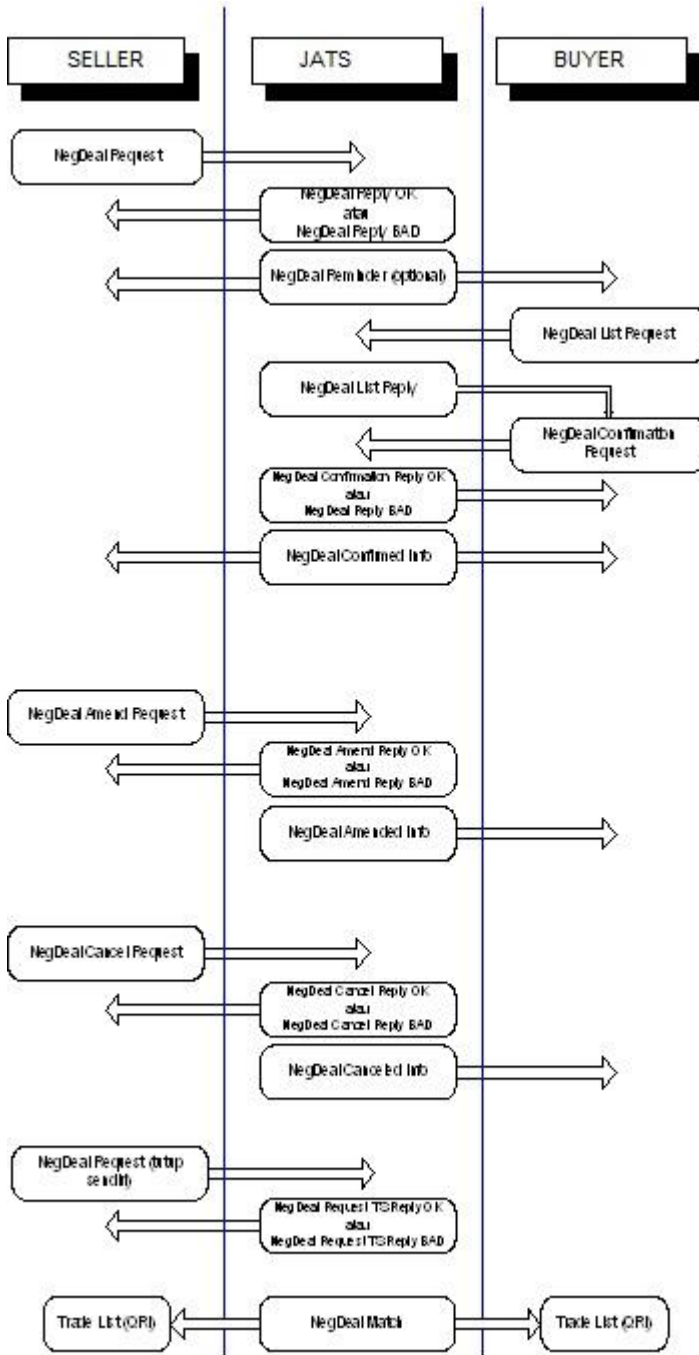
- **Negotiation Deal Request (Two Side)**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = D (New Order)		
11	ClOrdID	*Unique identifier of the order as assigned by institution.*	Broker Reference	
109	ClientID	*Used for firm identification in third-party transactions.*	User ID	
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	
21	HandlInst	*Instructions for order handling on Broker trading floor*	3	
55	Symbol	*Ticker symbol*	Supplied by broker	
65	SymbolSfx	*Board.*	0NG : Negotiation Market Note: '0+board code' Supplied by broker. Without space	
48	SecurityID	*Symbol ID* *Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*	Security number from JATS.	See Appendix C
54	Side	*Side of order*	1=Buy (initiator) 2=Sell (initiator)	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	
60	TransactTime	*Time this order request was initiated/released by the trader.*	yyyyMMdd-HH:mm:ss.SSS Current time	
38	OrderQty	*Either CashOrderQty or OrderQty is required.*	Order quantity Order quantity in UNIT Advertisement quantity in share	
40	OrdType	*Order type.*	=E (Previously indicated)	

Tag	Field Name	Comments	Valid Value	Type
44	Price	*Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.*	Price	
23	IOIId	*Required for Previously Indicated Orders*	0 (always zero for initiator)	
58	Text	*Consist of 4 fields:* *1. Couterpart UserID char[12],* *2. Match Reference char[10],* *3. Counterpart Account char[12],* *4. Reminder Time Interval N[4]*	Valid Values: 1. For Field Couterpart UserID : JATS Counterpart user id. Must be different from Tag 109: ClientID. 2. For Match Reference: spaces(10) 3. For Field Counterpart Account: spaces(12) 4. For Field Reminder Time Interval : Number of time period (in minutes) for repeat NegDeal Reminder message	See Appendix C
440	ClearingAccount	*Clearing Account Number*	Set to " " (single space)	
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Negotiation Deal Request (Crossing)**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = D (New Order)		
11	ClOrdID	*Unique identifier of the order as assigned by institution.*	Broker Reference	
109	ClientID	*Used for firm identification in third-party transactions.*	User ID	
1	Account	*Account mnemonic as agreed between broker and institution.*	A or I or S or F	See Appendix C
21	HandlInst	*Instructions for order handling on Broker trading floor*	3	
55	Symbol	*Ticker symbol*	Supplied by broker	
65	SymbolSfx	*Board.*	0NG : Negotiation Market Note: '0+board code' Supplied by broker. Without space	

Tag	Field Name	Comments	Valid Value	Type
48	SecurityID	*Symbol ID* *Request for list of securities number using Security Request message (see Security Request message table)* *Supplied by broker*	Security number from JATS.	
54	Side	*Side of order*	1=Buy (initiator) 2=Sell (initiator)	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	
60	TransactTime	*Time this order request was initiated/released by the trader.*	yyyyMMdd-HH:mm:ss.SSS Current time	
38	OrderQty	*Either CashOrderQty or OrderQty is required.*	Order quantity Order quantity in UNIT Advertisement quantity in share	
40	OrdType	*Order type.*	=E (Previously indicated)	
44	Price	*Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.*	Price	
23	IOIId	*Required for Previously Indicated Orders*	0 (always zero for initiator)	See Appendix C
58	Text	*Consist of 6 fields:* *1. Counterpart UserID char[12],* *2. Match Reference char[10],* *3. Counterpart Account char[12],* *4. Reminder Time Interval N[4]* *5. Counterpart Broker Reference C[20]* *6. Counterpart Trading ID C[15]*	Valid Values: 1. For Field Couterpart UserID : JATS Counterpart user id. Must be the same as Tag 109: Client ID 2. For Match Reference: spaces(10) 3. For Field Counterpart Account: I or A or S 4. For Field Reminder Time Interval : Number of time period (in minutes) for repeat NegDeal Reminder message 5. Counterpart Broker Reference 6. Counterpart Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
440	ClearingAccount	*Clearing Account Number*	Set to " " (single space)	

Tag	Field Name	Comments	Valid Value	Type
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Negotiation Deal Confirmation Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = D (New Order)		
11	ClOrdID	Unique identifier of the order as assigned by institution.	Broker Reference	
109	ClientID	Used for firm identification in third-party transactions.	User ID	
1	Account	Account mnemonic as agreed between broker and institution.	A or I or S or F	
21	HandlInst	Instructions for order handling on Broker trading floor	3	
55	Symbol	Ticker symbol	Supplied by broker	
65	SymbolSfx	Board.	0NG : Negotiation Market Note: '0+board code' Supplied by broker. Without space	
48	SecurityID	Symbol ID Request for list of securities number using Security Request message (see Security Request message table) Supplied by broker	Security number from JATS.	See Appendix C
54	Side	Side of order	1=Buy (confirm) 2=Sell (confirm)	
60	TransactTime	Time this order request was initiated/released by the trader.	yyyyMMdd-HH:mm:ss.SSS Current time	
38	OrderQty	Either CashOrderQty or OrderQty is required.	Order quantity Order quantity in UNIT Advertisement quantity in share	
40	OrdType	Order type.	=E (Previously indicated)	
44	Price	Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.	Price	
23	IOIid	Required for Previously Indicated Orders	Order Number to confirmed	

Tag	Field Name	Comments	Valid Value	Type
58	Text	Empty	""	
440	ClearingAccount	*Clearing Account Number*	Set to " " (single space)	See Appendix C
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Negotiation Deal Reply OK Or Neg. Deal Confirmation OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders.*	JATS Deal Number	
11	ClOrdID	*Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.*	Broker reference	
17	ExecID	*Must be unique for each Execution Report message*	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	*Identifies transaction type*	=0 (new)	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=0 (new)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=0 (new), for NegDeal Reply OK =2, for NegDeal confirm Reply OK	See Appendix C
55	Symbol	*Ticker Symbol*	Supplied by broker	
54	Side	*Side of order*	1=Buy (Initiator/Counterpart) 2=Sell (Initiator/Counterpart)	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	
38	OrderQty	*Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.*	Order quantity Order quantity in UNIT Advertisement quantity in share	
44	Price	*Required if specified on the order*	Price of deal	

Tag	Field Name		Comments	Valid Value	Type
151	LeavesQty		*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	0	
14	CumQty		*Currently executed shares for chain of orders (matched qty)*	0	
6	AvgPx		*Not Applicable.*	0	
21	HandlInst		*Instructions for order handling on Broker trading floor*	3	See Appendix C
→	31	LastPx	*Price*		
→	32	LastShares	*Matched Qty*		
			Neg Deal confirm flag	b	
	Standard Trailer				

- **Negotiation Deal Reply BAD Or Neg. Deal Confirmation BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	OrderID is required to be unique for each chain of orders. NoDeal No	The corresponding OrderID	
11	ClOrdID	Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.	Broker reference	
17	ExecID	JATS time stamp	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	Identifies transaction type =0 (new)	0	See Appendix C
150	ExecType	Describes the type of execution report. Same possible values as OrdStatus. =8 (rejected)	8	
39	OrdStatus	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx =8 (rejected)	8	

Tag	Field Name	Comments	Valid Value	Type
55	Symbol	Ticker Symbol See security code. Example: "TLKM"	Security code	
54	Side	Side of order 1=Buy (Counterpart) 2=Sell (Initiator)	1 or 2	
151	LeavesQty	Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.	0	See Appendix C
14	CumQty	Currently executed shares for chain of orders.	0	
6	AvgPx	*Not Applicable*	0	
21	HandlInst	Instructions for order handling on Broker trading floor	3	
58	Text	Error Message		
31	LastPx	*Price*	0	
32	LastShares	*Matched Qty*	0	
	Standard Trailer			

- **MSG Reminder Negotiation Deal**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U3		
58	Text	Negdeal reminder	"Negotiated Deal no XXXXXX not confirmed"	See Appendix C
	Standard Trailer			

- **Negotiation Deal Confirmed Info**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	OrderID is required to be unique for each chain of orders.	JATS deal number	
11	ClOrdID	Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.	Broker reference	See Appendix C
17	ExecID	Must be unique for each Execution Report message	JATS time stamp (hhmmsszzz) Zzz= milisecond	

Tag	Field Name	Comments	Valid Value	Type
20	ExecTransType	=0 (new)	0	
150	ExecType	Describes the type of execution report. Same possible values as OrdStatus. =0 (new)	0	
39	OrdStatus	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx "1" for partially matched or "2" for fully matched	1 or 2	
55	Symbol	Ticker Symbol	See security code. Example: "TLKM"	
54	Side	Side of order Valid values: = 1 (buy) (Counterpart) = 2 (Sell) (Initiator)	1 or 2	
38	OrderQty	Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.	Accepted deal quantity Supplied by JATS Order quantity in UNIT Advertisement quantity in share	
44	Price	Required if specified on the order	Accepted deal price	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	See Appendix C
40	OrderType	Order Type E = (previously indicated)	E	
32	LastShares	Matched quantity	Matched quantity	
31	LastPx	Price	Price	
151	LeavesQty	Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.	Balance quantity Supplied by JATS	
14	CumQty	Currently executed shares for chain of orders.	Matched quantity Supplied by JATS	
6	AvgPx	Not Applicable	0	
21	HandlInst		3	
58	Text	Text		
	Standard Trailer			

11. Negotiation Deal Amend

- **Negotiation Deal Amend Request (Two Side)**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = G (Order Cancel / Replace)		
37	OrderID	Unique identifier of most recent order as assigned by broker.	JATS Deal Number	
109	ClientID	Used for firm identification in third-party transactions (should not be a substitute for OnBehalfOfCompID/DeliverToCompID).	*User ID*	
41	OrigClOrdID	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.	Supplied by Broker: It represents old broker order number (old broker ref).	
11	ClOrdID	Unique identifier of *replacement* order as assigned by institution. Note that this identifier will be used in ClOrdID field of the Cancel Reject message if the replacement request is rejected.	Supplied by Broker: It represents new broker order number. (broker reference)	
1	Account	Account mnemonic as agreed between broker and institution.	A or I or S or F	See Appendix C
21	HandlInst	Instructions for order handling on Broker trading floor	3	
55	Symbol	Must match original order	Supplied by broker	
54	Side	Must match original side, however, Buy and Buy Minus can be interchanged as well as Sell and Sell Plus Supplied by broker. 1 = buy (Counterpart) 2 = sell (Initiator)	1 = buy (Initiator) 2 = sell (Initiator)	
60	TransactTime	Time this order request was initiated/released by the trader or trading system. Supplied by Broker:	yyyyMMdd-HH:mm:ss.SSS	

Tag	Field Name	Comments	Valid Value	Type
38	OrderQty	Either CashOrderQty or OrderQty is required. Note that either, but not both, CashOrderQty or OrderQty should be specified. Should be the "Total Intended Order Quantity" (including the amount already executed for this chain of orders)	New deal quantity Order quantity in UNIT Advertisement quantity in share	
40	OrdType	Must match original OrdType. See Order Method Table =E (Previously indicated)	E	
44	Price	Required for limit OrdTypes. For F/X orders, should be the "all-in" rate (spot rate adjusted for forward points). Can be used to specify a limit price for a pegged order, previously indicated, etc.	New price of deal	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	See Appendix C
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	
58	Text	Consists of 2 fields: Counterpart User ID char[12], Reminder Time Interval N[4]	1. For Field Couterpart UserID : JATS Counterpart user id. Must be different from Tag 109: ClientID. 2. For Field Reminder Time Interval: Number of time period (in minutes) for repeat NegDeal Reminder message	
440	ClearingAccount	Clearing Account Number Set to " " (single space)	" "	
376	ComplianceID	*ID used to represent this transaction for compliance Trading-ID purposes*	Trading-ID contains 6 digit alpha numeric of SID (from 8th digit to 13th digit). SID is provided by Indonesian Central Securities Depository (KSEI)	
	Standard Trailer			

- **Negotiation Deal Amend Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	OrderID is required to be unique for each chain of orders. = New Deal Number	Same JATS Deal Number	See Appendix C

Tag	Field Name	Comments	Valid Value	Type
198	SecondaryOrderID	Can be used to provide order id used by exchange or executing system. = Previous Deal Number	Empty (No new Order Number is generated)	
11	ClOrdID	Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.	Broker Reference	
17	ExecID	Must be unique for each Execution Report message	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	Identifies transaction type =2 (correct)	2	
19	ExecRefID		BrokerRef	
150	ExecType	Describes the type of execution report. Same possible values as OrdStatus. =5 (replace)	5	
39	OrdStatus	Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx =5 (replace)	5	See Appendix C
55	Symbol	Ticker Symbol See security code. Example: "TLKM"	Security code	
54	Side	Side of order Valid values: 1=Buy 2=Sell	1 Or 2	
38	OrderQty	Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.	New Qty Order quantity in UNIT Advertisement quantity in share	
44	Price	Required if specified on the order	Price	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	

Tag	Field Name	Comments	Valid Value	Type
151	LeavesQty	Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0	Balance qty. Supplied by JATS	
14	CumQty	Currently executed shares for chain of orders.	Matched qty	
6	AvgPx	Not Applicable.	0	
21	HandlInst	Instructions for order handling on Broker trading floor	3	
31	LastPx	*Price*	Price	
32	LastShares	*Matched Qty*	New Qty	
	Standard Trailer			

- **Negotiation Deal Amend Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 9 (Cancel Reject)		
37	OrderID	*If CxlRejReason="Unknown order", specify "NONE".*	"000000000000" (no JATS deal number)	
198	SecondaryOrderID	*Can be used to provide order id used by exchange or executing system. It represents old deal number*	Previous JATS deal number	
11	ClOrdID	*Unique order id assigned by institution to the cancel request or to the replacement order.*	Broker Reference	
41	OrigClOrdID	*ClOrdID which could not be canceled/replaced. ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	Set to " "	See Appendix C
39	OrdStatus	*OrdStatus value after this cancel reject is applied.*	8 = (Rejected)	
434	CxlRejResponseTo	*Identifies the type of request that a Cancel Reject is in response to.*	1-Order Cancel Request 2-Order Cancel/Replace Request Valid values: 2	
58	Text	*Error Message Text*	*Error Message*	
31	LastPx	*Price*	0	
32	LastShares	*Matched Qty*	0	
	Standard Trailer			

- **Negotiation Deal Amended Info**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders. = New Deal Number*	New JATS Deal Number	See Appendix C
198	SecondaryOrderID	*Can be used to provide order id used by exchange or executing system. = Previous Deal Number*	Previous JATS Deal Number	
11	ClOrdID	*Required for executions against electronically submitted orders which were assigned an ID by the institution. Not required for orders manually entered by the broker.*	Broker Reference	See Appendix C
17	ExecID	*Must be unique for each Execution Report message*	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	*Identifies transaction type*	=2 (correct)	
19	ExecRefID	*BrokerRef*	BrokerRef	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=5 (replace)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=5 (replace)	
55	Symbol	*Ticker Symbol*	See security code. Example: "TLKM"	
54	Side	*Side of order*	1=Buy 2=Sell	
64	SettlDate	*Settlement Date*	T+3 (YYYYMMDD)	
172	SettlDeliveryType	*Identifies type of settlement*	0 = 'Versus. Payment': Deliver (if Sell) or Receive (if Buy) vs. (Againts) Payment 1 = 'Free': Deliver (if Sell) or Receive (if Buy) Free	
38	OrderQty	*Either CashOrderQty or OrderQty is required. Not required for a rejected cash order or an order ack for a cash order.*	New Qty Order quantity in UNIT Advertisement quantity in share	
44	Price	*Required if specified on the order*	Price	
40	OrderType	*Order Type*	= E (previously indicated)	
31	LastPx	*Price*	Price, = 0	
32	LastShares	*Matched Qty*	Matched Qty, = 0	
14	CumQty	*Currently executed shares for chain of orders.*	Qty	

Tag	Field Name	Comments	Valid Value	Type
6	AvgPx	*Not Applicable.*	0	
21	HandlInst	*Instructions for order handling on Broker trading floor*	3	
58	Text	Text		
	Standard Trailer			

12.   Cancel Neg. Deal

- **Negotiation Deal Cancel Request**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = F (Order Cancel Request)		
41	OrigClOrdID	ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.	Supplied by broker (old broker reference)	
37	OrderID	Unique identifier of most recent order as assigned by broker.	JATS Deal Number	
11	ClOrdID	Unique ID of cancel request as assigned by the institution.	Supplied by broker (broker reference)	
109	ClientID	Used for firm identification in third-party transactions (should not be a substitute for OnBehalfOfCompID/DeliverToCompID).	User ID	See Appendix C
55	Symbol	Ticker symbol	Supplied by broker	
54	Side	Side of order	1 = Buy 2 = Sell Supplied by broker	
60	TransactTime	Time this order request was initiated/released by the trader or trading system.	yyyyMMdd-HH:mm:ss.SSS Supplied by broker	
38	OrderQty	=1 for withdrawing order =2 for withdrawing neg. deal	=1 for withdrawing order =2 for withdrawing neg. deal	
58	Text	User ID char[12] and Broker ID char[12].	User ID char[12] and Broker ID char[12].	
	Standard Trailer			

- **Negotiation Deal Cancel Reply OK**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	OrderID is required to be unique for each chain of orders.		See Appendix C
17	ExecID	Must be unique for each Execution Report message	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	=1 (cancel)	1	

Tag	Field Name	Comments	Valid Value	Type
19	ExecRefID	*BrokerRef*	BrokerRef	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=4 (cancelled)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=4 (cancelled)	
55	Symbol	*Ticker Symbol*	Set to " "	
54	Side	*Set to " "*	Set to " "	
151	LeavesQty	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	0	See Appendix C
14	CumQty	*Currently executed shares for chain of orders.*	0	
6	AvgPx	*Not Applicable*	0	
21	HandlInst	*Instructions for order handling on Broker trading floor*	3	
58	Text	*Cancel Status OK*	Text	
31	LastPx	*Price*	0	
32	LastShares	*Matched Qty*	0	
	Standard Trailer			

- **Negotiation Deal Cancel Reply BAD**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 9 (Order Cancel Reject)		
37	OrderID	*If CxlRejReason="Unknown order", specify "NONE".*	"NONE"	
11	ClOrdID	*Unique order id assigned by institution to the cancel request or to the replacement order.*	" "	
41	OrigClOrdID	*ClOrdID which could not be canceled/replaced. ClOrdID of the previous order (NOT the initial order of the day) when canceling or replacing an order.*	" "	See Appendix C
39	OrdStatus	*OrdStatus value after this cancel reject is applied.*	=8 (Rejected)	

Tag	Field Name	Comments	Valid Value	Type
434	CxlRejResponseTo	*Identifies the type of request that a Cancel Reject is in response to.*	1 - Order Cancel Request 2 - Order Cancel/Replace Request Valid values:1	See Appendix C
58	Text	Error Message	*Text*	
	Standard Trailer			

- **Negotiation Deal Canceled Info**

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = 8 (Execution Report)		
37	OrderID	*OrderID is required to be unique for each chain of orders.*	Cancelled no. Neg Deal	See Appendix C
17	ExecID	*Must be unique for each Execution Report message*	JATS time stamp (hhmmsszzz) Zzz= milisecond	
20	ExecTransType	=1 (cancel)	=1 (cancel)	
19	ExecRefID	*BrokerRef*	BrokerRef	
150	ExecType	*Describes the type of execution report. Same possible values as OrdStatus.*	=4 (cancelled)	
39	OrdStatus	*Describes the current state of a CHAIN of orders, same scope as OrderQty, CumQty, LeavesQty, and AvgPx*	=4 (cancelled)	
55	Symbol	*Ticker Symbol*	Ticker Symbol	
54	Side	*1 = Buy* *2 = Sell*	1 = Buy 2 = Sell	
40	OrderType	*Order Type*	= E (previously indicated)	
31	LastPx	*Price*	Price, = 0	
32	LastShares	*Matched Qty*	Matched Qty, = 0	
151	LeavesQty	*Amount of shares open for further execution. If the OrdStatus is Canceled, DoneForTheDay, Expired, Calculated, or Rejected (in which case the order is no longer active) then LeavesQty could be 0, otherwise LeavesQty = OrderQty - CumQty.*	0	
14	CumQty	*Currently executed shares for chain of orders.*	0	
6	AvgPx	*Not Applicable*	0	
21	HandlInst	*Instructions for order handling on Broker trading floor*	3	
58	Text	Cancel Status OK	Text	
	Standard Trailer			

13. Trading Info

Used for JATS information distribution such as: stock suspend, user suspend, direct warning from JATS administrator to spesific trader/all traders.

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = h (Trading Info)		
336	TradingSessionID	TradingSessionID	"JSX"	
340	TradSesStatus	1 = halt 2 = open 3 = close	1 = halt 2 = open 3 = close	See Appendix C
58	Text	Broadcast Message		
	Standard Trailer			

14. Possible Duplicate Fix Message

Used to inform brokerage firm that there is possible duplicate fix message for previous trader message request.

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	Error Code	1	
6064	Error Level	Error Level	1	
6065	Ref Error Code	Ref Error Code	Possible Duplicate/ Resend Message is Rejected + BrokerRef	See Appendix C
58	Error Message	Error Message	Fix Interpretation Error	
6066	Previous request	FIX MsgType	FIX MsgType	
	Standard Trailer			

15. Unknown JONEC Message

Used to inform broker's application that message which is sent to JONES via JONEC is unknown.
Make sure that it is comply with the message rule.

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	Error Code	2	
6064	Error Level	Error Level	1	
6065	Ref Error Code	Ref Error Code	Tags value on Fix Message + BrokerRef	See Appendix C
58	Error Message	Unknown FIX Message	Unknown FIX Message	
6066	Previous request	Null	Null	
	Standard Trailer			

16. JONEC Message Interpretation Error

Warning that specific message type which already sent to JATS cannot identified tag by tag or some tag didn't follow ORI rules.

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	*Error Code*	3	
6064	Error Level	*Error Level*	1	
6065	Ref Error Code	"Tag 65 = ORG " = Invalid Board "Tag 48 = YY " = Invalid Security "Error at Tag XX = YY" + BrokerRef	"Tag 65 = ORG " "Tag 48 = 15000 " "Error at Tag XX = YY" + BrokerRef	See Appendix C
58	Error Message	*FIX Msg Interpretation Error*	"Invalid Board " "Invalid Security " "FIX Msg Interpretation Error "	
6066	Previous request	*Previous request*	Null	
	Standard Trailer			

17. Broadcast Table Full

Warning if JONES can not receive broadcast message from JATS because broadcast table is full

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	*Error Code*	3	
6064	Error Level	*Error Level*	1	
6065	Ref Error Code	*Ref Error Code*	"Broadcast Table Full . Brokerref: " + previous sent BrokerRef	See Appendix C
58	Error Message	*Unknown JATS Mesg*	Broadcast Table Full	
6066	Previous request	*FIX MsgType*	FIX MsgType	
	Standard Trailer			

18. JATS Interpretation Error Reply

Warning if specific reply message type from JATS to JONES cannot devided into Fix tags.

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	*5 = JATS Interpretation Error*	5	
6064	Error Level	*1 = JATS Interpretation Error*	1	
6065	Ref Error Code	Ref Error Code	Broadcast Fix Message + BrokerRef	See Appendix C
58	Error Message	*JATS Interpretation Error*	"JATS Interpretation Error " "Cannot send fix BC Message to JONEC"	
6066	Previous request	*FIX MsgType*	FIX MsgType	
	Standard Trailer			

19.   Failed to Send Heartbeat to JATS

Warning if JONES cannot send heartbeat to JATS for the user connection..

Tag	Field Name	Comments	Valid Value	Type
	Standard Header	MsgType = U7		
6063	Error Code	*Error Code*	3	See Appendix C
6064	Error Level	*Error Level*	1	
6065	Ref Error Code	*Ref Error Code*	Error Connection to JATS on User sent Heartbeat to JATS + BrokerRef	
58	Error Message	*Text*	Failed to send JATS	
6066	Previous request	*FIX MsgType*	FIX MsgType	
	Standard Trailer			

V. Message Trailer

Each message is terminated by a standard trailer. The trailer is used to segregate messages and contains the three digit character representation of the Checksum value.

The message trailer format is as follows:

Message Trailer

Tag	Field Name	Type	Description
10	CheckSum	Char	Three byte, simple checksum (see Appendix B for description). ALWAYS THE LAST FIELD IN RECORD; i.e. serves, with the trailing <SOH>, as the end-of-record delimiter. Always defined as three characters.

Trailer example:
The characters are:
'10=212<SOH>'

Appendix A

Example of Messages

The general format for each message, no matter what the DATA type is, should be like this:

Header	DATA	Trailer

Please note that each item/field/column in the message is separated by character ASCII <SOH> (001), so the representation of <SOH> in this document, is only for ease of use purpose. Upon implementation, the <SOH> is really a one byte ASCII character.

Here is some examples :

LOGON MESSAGE (see logon request table)

Logon message will consists of header, data, and trailer.

The data part: (please refer to data type, for this example is logon data type)
'98=2<SOH>   → encrypt method
108=45<SOH>   → heartbeat
95=22<SOH>   → raw data length
96=MyUserID0001MyPassword<SOH>'   → raw data

The trailer string:
'10=212<SOH>'   → three bytes checksum

The full-length format of the above logon message is:

'[Header]<SOH>98=2<SOH>108=45<SOH>95=22<SOH>96=MyUserID0001MyPassword<SOH>10=212<SOH>'

FIX Documentations

Since the Financial Information Exchange/FIX was initiated by an organization of institutions and brokers interested in streamlining their trading processes, the specification of FIX protocol messages can be referred at their online resources at:

http://www.fixprotocol.org/specification/fix-42.html

Some of useful information in it:

- Introduction to FIX
- FIX Message Format
- FIX Field Definitions
- More detailed explanations on FIX Messages
- Business Terms
- Etc.

List Field Type

Tag	Field Name	Type	Tag	Field Name	Type
1	Account	C[12]	132	BidPx	N[16]
6	AvgPx	N[16]	133	OfferPx	N[16]
10	CheckSum	C[3]	134	BidSize	N[16]
11	ClOrdID	C[20]	135	OfferSize	N[16]
14	CumQty	N[16]	150	ExecType	N[1]
17	ExecID	N[9]	150	ExecType	N[1]
18	ExecInst	C[1]	151	LeavesQty	N[16]
19	ExecRefID	C[15]	198	SecondaryOrderID	N[12]
20	ExecTransType	N[1]	295	NoQuoteEntries	N[1]
21	HandlInst	N[1]	297	QuoteAckStatus	C[1]
23	IOIid	N[12]	298	QuoteCancelType	N[1]
31	LastPx	N[16]	300	QuoteRejectReason	C[255]
32	LastShares	N[16]	336	TradingSessionID	C[12]
37	OrderID	C[12]	340	TradSesStatus	N[1]
38	OrderQty	N[16]	376	ComplianceID	C[15]
39	OrdStatus	N[1]	432	ExpireDate	N[8]
40	OrdType	C[16]	434	CxlRejResponseTo	N[1]
41	OrigClOrdID	C[20]	440	ClearingAccount	C[10]
44	Price	N[16]	6001	UserID	C[12]
48	SecurityID	C[12]	6002	CurrentPassword	C[10]
54	Side	C[1]	6002	Current Password	C[10]
55	Symbol	C[21]	6003	New Password	C[10]
58	Text	C[255]	6004	Return Value	C[255]
59	TimeInForce	C[1]	6063	Error Code	N[1]
60	TransactTime	DATETIME	6064	Error Level	N[1]
62	ValidUntilTime	C[17]	6065	Ref Error Code	C[255]
65	SymbolSfx	C[3]	6066	Previous request	C[2]
98	EncryptMethod	N[1]	6067	MassWithdrawRequestType	C[1]
99	StopPx	N[16]	6068	MassWithdrawResponse	C[1]
108	HeartBtInt	N[3]	6069	MassWithdrawRejectReason	C[2]
109	ClientID	C[12]	6090	LogonReply	C[1]
117	QuoteID	C[20]	6091	LogonDesc	C[255]

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