

# SuperX ATS FIX Protocol Connectivity Specification

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# **Version Control**

Version	Change Date	Description
20131028-TM	October 28, 2013	<ul> <li>Document Created.</li> </ul>
20131030-TM	October 30, 2013	<ul> <li>Added Tag7013 Details.</li> </ul>
		<ul> <li>Modified Test Request Section.</li> </ul>
20131127-TM	November 27, 2013	<ul> <li>Decommissioned Maximum</li> </ul>
		Contraparty Order Quantity Functionality
		(Tag7013)
V4	December 13, 2013	<ul> <li>Changed versioning nomenclature.</li> </ul>
V6	January 24, 2014	<ul> <li>Tags 93 and 89 are no longer required</li> </ul>
V7	February 14, 2014	<ul> <li>Tag 37 is no longer requires on cancels</li> </ul>
		and minor corrections.
V8	February 11, 2015	<ul> <li>Correcting typos for tags 102 and 434</li> </ul>
		for Order Cancel Reject Messages.
		<ul> <li>Added FIX Version (4.2).</li> </ul>
V9	April 9, 2015	<ul> <li>Correcting: Start time to accept orders</li> </ul>
		to 8:00 AM.
V10	July 27, 2015	<ul> <li>Correcting: 1688 possible values.</li> </ul>
V11	December 1, 2015	<ul> <li>Updated description for MinQty.</li> </ul>
		<ul> <li>Added CrossID to ExecReport.</li> </ul>
		<ul> <li>Removed time to process a new order.</li> </ul>
		Added Tag 9110.
		<ul> <li>Minimum Quantity Functionality</li> </ul>
		updated.
		Updated maximum length supported for
		ClOrdID.
		<ul> <li>ResetSeqNumFlag comments were updated.</li> </ul>
V12	November 21, 2018	Tag 59 no longer required
V12 V13		
	December 7, 2018	Updated Self-Crossing section
V14	May 31, 2020	Updated for odd lots and new
\/1F	Nevember 24, 2020	counterparty rules.
V15	November 24, 2020	Updated for default pegging logic.



#### Purpose

This document describes the FIX messages supported only for Deutsche Bank's US-based Alternative Trading System, SuperX ATS. The document is specific to the trading of US Equities. All counterparties must certify their trading system with Deutsche Bank's UAT environment prior to being promoted or having access to the production environment. This document also assumes that prior knowledge and understanding of the FIX Protocol specification that can be referenced at <a href="http://www.fixprotocol.org/specifications">http://www.fixprotocol.org/specifications</a>. The FIX Version supported by SuperX ATS is 4.2.

### **Contacts**

#### Trading Desk

Email: SuperX.US@list.db.com Phone: +1 (212) 250-4077

#### Technical FIX Connectivity Team

Email: FIXNY@list.db.com Phone: +1 (212) 250-5726

#### Technical Production Management Team

Email: autobahn\_sup@list.db.com Phone: +1 (212) 250-0749



## **Overview**

#### Matching

SuperX ATS matches orders based on a strict price/time priority. SuperX ATS will match orders at or within the National Best Bid/Offer and in compliance to the Limit Up/Limit Down Rule. The only exception to price/time priority is if SuperX's Anti-Crossing logic supersedes a potential crossing opportunity (see the **Anti-Crossing Logic** section for more details).

SuperX ATS provides price improvement to the taker of liquidity where applicable.

SuperX ATS supports odd lots.

By default, SuperX ATS does not allow matching during a locked market. SuperX ATS will support functionality to allow matching during 1) a locked market where the NBB = NBO or 2) matching when either the NBB = LU OR NBO = LD. The default configuration for each participant for settings 1) and 2) is not to match. Contact <u>superx.us@list.db.com</u> for additional information on this feature.

Please review the SuperX ATS FAQ supplemental document for matching examples.

#### **Anti-Crossing Logic**

SuperX ATS supports the ability to prevent a participant from crossing opportunities in the pool with their own flow or other participants. This functionality is referred to as the Anti-Crossing logic.

Contact <u>superx.us@list.db.com</u> for further details and for enabling this feature.

- <u>Prevent Self-Crossing</u>: At the firm-level or session-level, a Liquidity Partner can opt-out from crossing with their order flow. Self-Crossing is allowed by default.
- <u>Counterparty:</u> At the firm-level, session-level or order-level, a Liquidity Partner can request not to cross with other participant(s) as defined by the counterparty segmentation rules as described in the current ATS-N filing and FAQ. By default, participants interact with all flows types in the pool.

### **Eligible Stocks**

All RegNMS eligible securities.



## **Hours of Operation**

SuperX ATS will start to accept orders at 8:00 A.M. EST.

SuperX ATS will match orders between 9:30 A.M. EST and 4:00 P.M. EST. SuperX will not match orders in a symbol until the primary exchange for that symbol is open.

Trades are reported to the tape via the NASDAQ Trade Reporting Facility.

SuperX ATS may not be accessible after 4:15 P.M. EST due to system maintenance.

### **Cancel-on-Disconnect (COD)**

All open orders will be canceled after 4:00 P.M. EST. All sessions are configured with Cancel-on-Disconnect by default. When new sessions are on-boarded, this is the default setting.

If you stop heartbeating after exceeding the heartbeat interval (tag108), and there is no response to our 'Test Request' message (tag35=1), then SuperX will enforce Cancel-On-Disconnect by disconnecting your session, canceling your orders, and once you re-connect you'll receive the cancellations. The heartbeat interval is determined based on the value in tag108 specified in the 'LogOn' message (tag35=A). If a socket disconnect occurs, SuperX will enforce Cancel-On-Disconnect immediately.

#### **Capacity and Latency**

SuperX ATS is designed to withstand 2,000 orders per second per FIX session before latency degradation becomes obvious.

### **DropCopy Functionality**

SuperX ATS can send 'dropcopies' of all executions from multiple sessions into a single drop copy session. By default, SuperX ATS will only send 'fills' (tag150=F) on a dropcopy session.

#### **Risk Controls**

SuperX ATS supports the following pre-trade risk checks:

Risk Control	Description
Maximum Daily Notional	Can be configured per FIX session or across multiple sessions for a given client. Total daily notional amounts exceeding this limit will be rejected.
Maximum Order Notional	Order notional amounts exceeding this limit will be rejected.
Maximum Order Quantity	Order quantities exceeding this limit will be rejected.



Clearly Erroneous/Limit Price Checks	Limit price check for orders to prevent clearly erroneous
	executions. If the order limit price is a certain percentage of a
	threshold away from the last bid/offer of the security, the order
	will be rejected. Price thresholds are defined as:
	x < \$1 - 75%
	\$1.00 <= x < \$10.00 - 50%
	x >= \$10 - 20%

#### Order Types

The order types supported by SuperX ATS are Day/IOC Market, Limit, Market/Far-touch Peg, Primary/Near-touch Peg, and Midpoint Peg orders as depicted below.

FIX 4.2	Market Order	Limit Order	Market/ Far-touch Peg	Primary/ Near-touch Peg	Midpoint Peg
MsgType (tag35)	D	D	D	D	D
OrderType (tag40)	1	2	Ρ	Ρ	Ρ
ExecInst* (tag18)	1	1	1 <space>P or P<space>1</space></space>	1 <space>R or R<space>1</space></space>	1 <space>M or M<space>1</space></space>
TimeInForce (tag59)	<b>0</b> (Day) or <b>3</b> (IOC)	<b>0</b> (Day) or <b>3</b> (IOC)	<b>0</b> (Day) or <b>3</b> (IOC)	<b>0</b> (Day) or <b>3</b> (IOC)	<b>0</b> (Day) or <b>3</b> (IOC)

\*All orders must be marked 'NOT HELD' with tag18 containing '1'

\*Note that if 40 = P and no peg type instruction is sent in 18, SuperX will default the order to Market Peg.

### **Minimum Quantity Functionality**

SuperX ATS supports 'MinQty' in tag110 on New (tag35=D) and Cxl/Replace (tag35=G). SuperX ATS will not aggregate/bundle orders to meet the quantity specified in tag110.

- If the 'New' order does <u>not</u> contain 'MinQty', and subsequently the order is 'Cxl/Replace' with the 'MinQty' tag included, then SuperX ATS will accept the 'Cxl/Replace' request, and process the 'MinQty'.
- 2. If the 'New' order contains 'MinQty', and subsequently the order is 'Cxl/Replace' with 'MinQty' omitted, then the 'Cxl/Replace' request will be accepted and 'MinQty' will be excluded.



- 3. If SuperX ATS receives a request to 'Cxl/Replace' an order that is partially filled, where 'MinQty' greater than 'OrderQty', then the 'Cxl/Replace' request is rejected.
- 4. If SuperX ATS receives a request to 'Cxl/Replace' an order that is partially filled order, where 'MinQty' equal to 'Order Qty', then the 'Cxl/Replace' request is rejected.
- 5. On a partially filled order, when the 'LeavesQty' < 'MinQty', by default, the SuperX ATS will reset the 'MinQty' to equal 'LeavesQty' and will cross with any opposite side order equal or greater than 'LeavesQty'. Clients may choose to have such orders automatically cancelled back instead. To enable this feature, please request it during FIX certification.
- 6. A MinQty can be automatically applied to any of the counterparty groups described in Q21 through the use of a MinQty/Counterparty rule. To enable this feature, please request it during FIX certification. Please note that the MinQty values specified in the MinQty/Counterparty rule take precedence over the value in tag 110 on an order. The MinQty/Counterparty rule may be specified on an order in FIX tag 9110. Please see the FAQ for more information.

#### **Erroneous Trades**

SuperX ATS will follow the clearly erroneous rulings communicated by SROs and bust/break trades as needed.

The Trade Desk will ensure that the trades are removed from NASDAQ Trade Reporting Facility and that clearly erroneous trades are not booked.

### Compliance

For Regulatory reporting, use the following:

- MIC Code or ISO Code or Last Market (tag30) = DBSX
- Clearing Firm = 0573
- Trade Reporting Facility and Market Participant ID = DBAX
- Executing Broker = DBAX
- Sent to Firm MPID = DBAX
- Destination Code = M
- Recipient Type = M
- Bloomberg Advertised Volume is DBAB and combined with all of DB's flow

### Sessions

If a FIX tag within this range: 1-5000 is not explicitly supported by SuperX ATS then your message will be rejected. Tags within this range: 5000 – 9999 will be ignored.



If a FIX tag is repeated in a message, SuperX ATS will process the first occurrence of the tag in the message.

## **Standard Message Header**

Тад	Field Name	Req'd	Comments
8	BeginString	Y	Must be first field in message
9	BodyLength	Y	Must be second field in message
35	MsgType	Y	Must be third field in message
34	MsgSeqNum	Y	Integer message sequence number.
49	SenderCompID	Y	SenderCompID. Assigned by SuperX ATS
56	TargetCompID	Y	DBSX
52	SendingTime	Y	Time of message transmission (always expressed in UTC (Universal Time Coordinated, also known as 'GMT')
50	SenderSubID	Ν	Ignored.
57	TargetSubID	Ν	Ignored.
43	PossDupFlag	N	Always required for retransmitted messages, whether prompted by the sending system or as the result of resend request
97	PossResend	N	Required when message may be duplicate of another messages sent under a different sequence number

## **Standard Message Trailer**

Tag	Field Name	Req'd	Comments
93	SignatureLength	N	Required when trailer contains signature. Note: Not to be included within SecureData (91) field
89	Signature	N	Note: Not to be included within SecureData (91) field
10	CheckSum	Y	(Always unencrypted, always last field in message)

### Logon

Тад	Field Name	Req'd	Comments
	Standard Header	Y	MsgType = A
98	EncryptMethod	Y	Not supported.
108	HeartBtInt	Y	Heartbeat Interval
141	ResetSeqNumFlag	Ν	Supported.
95	RawDataLength	Ν	Not supported.



93	RawData	Ν	Not supported.
	Standard Trailer	Y	

#### Sequence Numbers

Sequence numbers, both inbound and outbound, will be reset to 1 every day. The recommended heartbeat interval is 30 seconds.

#### **Resend Request and Sequence Reset**

The Heartbeat Interval that is specified in the Logon message will be used to make sure that your connection is alive and functioning. If inactivity is detected for a period longer than the Heartbeat, SuperX ATS will send a Test Request to determine if you are still active. If there is no response to the Test Request within a period of 2.4\*Heartbeat Interval from the last message received from you, then SuperX ATS will immediately close the connection.

#### Heartbeat

A Heartbeat message should be sent if the agreed upon 'HeartBtInt' has elapsed since the last message was sent.

#### **Test Request**

The Heartbeat Interval that is specified in the Logon message will be used to make sure that your connection is alive and functioning. If inactivity is detected for a period longer than the Heartbeat, SuperX ATS will send a Test Request to determine if you are still active. If there is no response to the Test Request with a period of 2.4\*Heartbeat Interval, then SuperX ATS will immediately send a logout message and the connection will be closed.

#### Reject

Session level rejects are used to indicate violations of the session protocol, or missing fields.

#### **Business Reject**

All application level messages that fulfill session level rules but violate business logic (e.g., invalid order type or invalid order quantity) will be rejected by sending Execution Report (MsgType = 8) with appropriate values for OrdStatus and ExecType.

#### Logout

A Logout message should be sent by the counterparty by 4:15 PM EST to close the FIX session. If another time is required, contact <u>fixny@list.db.com</u>.



## **FIX Messages Types**

#### **Administrative Messages**

• Standard FIX administrative messages are supported.

#### **Incoming Messages**

- New Order Single
- Order Cancel Request
- Order Cancel/Replace Request (Order Modification Request)

## **Outgoing Messages**

- Execution Report
- Order Cancel Reject

# New Order Single

Tag	Field Name	Req'd	Comments
35	MsgType	Y	MsgType = D
1	Account	N	May be used in Anti-Internalization Logic. Reflected back on execution reports associated with this order (optional).
11	ClOrdID	Y	Unique ID for the day. Should be 22 characters or less. Duplicate ClOrdId's will be rejected.
21	HandlInst	Y	1 = Automated execution order, private, no Broker intervention
18	ExecInst	Y	Not Held = '1' (required for ATS) Instructions for order handling for pegging (optional). Midpoint Peg = 'M' Market Peg = 'P' Primary Peg = 'R' Example for Midpoint Peg with Not Held instruction = '1 M' or 'M 1'. Note there is a <space> between '1' and 'M'.</space>
60	TransactTime	Y	Time the order was initiated by the counterparty. Must be in GMT timestamp
55	Symbol	Y	Symbol (upper case).
65	SymbolSfx	N	Required if applicable
54	Side	Y	Buy = '1' Sell = '2' Sell Short = '5' Sell Short Exempt = '6'
38	OrderQty	Y	Number of shares for this order.



40	OrdType	Y	Market = '1' Limit = '2' Pegged='P'
44	Price	N	Limit Price for the Limit orders. Required on Limit Orders.
110	MinQty	N	Minimum fill quantity (optional).
47	Rule80A	Y	Agency = 'A' Principle = 'P'
59	TimeInForce	N	Day = '0' (default) IOC = '3'
114	LocateReqd	N	'N' = Indicated the broker is not required to locate. Required for Sell Short orders.
5700	LocateBroker	N	String. Required locate code for Sell Short orders.
1688	ShortSaleExemptionReason	N	<ul> <li>0 = Exemption Reason Unknown</li> <li>1 = Incoming Short Sale Exempt</li> <li>2 = Above National Best Bid (Broker Dealer Provision)</li> <li>3 = Delayed Delivery</li> <li>4 = Odd-Lot</li> <li>5 = Domestic Arbitrage</li> <li>6 = International Arbitrage</li> <li>7 = Underwriter or Syndicate Distribution</li> <li>8 = Riskless Principal</li> <li>9 = VWAP</li> </ul>
109	ClientID	N	May be used in Anti-Internalization Logic
115	OnBehalfOfCompID	N	May be used in Anti-Internalization Logic
9110	MinQtyCounterpartyRule	N	ID of the rule that will be applied to the order.



## **Execution Report**

Тад	Field Name	Req'd	Comments	
35	MsgType	Y	MsgType = 8	
52	SendingTime	Y	GMT date-time that message was sent.	
20	ExecTransType	Y	New = '0'	
			Cancel = '1'	
			Correct = '2'	
17	ExecID	Y	Day-unique ID of execution.	
19	ExecRefID	N	Only present when ExecTranstype =	
			Cancel (1) or Correct (2)	
11	ClOrdId	Y	ClOrdID of the order being accepted,	
			executed, or rejected, of ClOrdID of the	
			cancel.	
41	OrigClOrdID	N	ClOrdID of the order being	
			cancelled/replaced.	
37	OrderID	N	OrderID supplied by Deutsche Bank.	
39	OrdStatus	Y	State of the order.	
			New = '0'	
			Partially Filled = '1'	
			Filled = '2'	
			Cancelled = '4'	
			Replaced = '5'	
			Rejected = '8'	
103	OrdRejReason	N	Only when ExecType is Rejected (8).	
1	Account	N	Reflected back on execution reports	
			associated with this order (optional).	
55	Symbol	Y	Symbol (upper case)	
65	SymbolSfx	N	Required if applicable.	
54	Side	Y	Buy = '1'	
			Sell = '2'	
			Sell Short = '5'	
			Sell Short Exempt = '6'	
38	OrderQty	Y	Number of shares for this order.	
40	OrdType	Y	Market = '1'	
			Limit = '2'	
			Pegged= 'P'	
44	Price	N	Limit Price for the Limit orders.	
110	MinQty	Ν	Minimum fill quantity (optional).	
47	Rule80A	Y	Agency = 'A'	
			Principle = 'P'	
59	TimeInForce	Y	Day = '0'	
			IOC = '3'	
76	ExecBroker	Y	Identifies executing broker.	
1			'DBAX' = Deutsche Bank DBA/SuperX ATS	



## Execution Report (continued)

Tag	Field Name	Req'd	Comments
32	LastShares	Y	Quantity of shares traded on this message.
31	LastPx	Y	Price on this message for only this number of shares.
14	CumQty	Y	Cumulative quantity of shares executed for this order.
6	AvgPx	Y	Average Price of executions for this order weighted by trade size. Zero if CumQty is zero.
60	TransactTime	Y	Time of acknowledgement generation. GMT timestamp
58	Text	N	If present, indicates reason for reject or cancel.
150	ЕхесТуре	Y	New = '0' Partial Fill = '1' Fill = '2' Cancelled = '4' Replaced = '5' Rejected = '8'
151	LeavesQty	Y	Quantity of shares open for the order.
851	LastLiquidityInd	Y	For fills only Added Liquidity = '1' Removed Liquidity = '2'
376	CrossID	N	A CrossID is a unique identifier of a match between a buy and a sell. Both the buyer and seller on a single transaction receive the same CrossID but separate ExecIDs.
1688	ShortSaleExemptionReason	N	<ul> <li>0 = Exemption Reason Unknown</li> <li>1 = Incoming Short Sale Exempt</li> <li>2 = Above National Best Bid (Broker</li> <li>Dealer Provision)</li> <li>3 = Delayed Delivery</li> <li>4 = Odd-Lot</li> <li>5 = Domestic Arbitrage</li> <li>6 = International Arbitrage</li> <li>7 = Underwriter or Syndicate Distribution</li> <li>8 = Riskless Principal</li> <li>9 = VWAP</li> </ul>



## **Order Cancel Request**

Tag	Field Name	Req'd	Comments
35	МѕдТуре	Y	MsgType = 'F'
11	ClOrdId	Y	Unique ID for the day. Should be 22 characters or less. Duplicate ClOrdId's will be rejected.
41	OrigClOrdID	Y	ClOrdID of the order to cancel.
37	OrderID	N	OrderID supplied by Deutsche Bank on the order acknowledgement.
60	TransactTime	Y	Time cancel initiated/released. Must be in GMT timestamp
55	Symbol	Υ	Symbol (upper case).
65	SymbolSfx	Y	Required if applicable
54	Side	Y	Buy = '1' Sell = '2' Sell Short = '5' Sell Short Exempt = '6'

## **Order Cancel Reject**

Tag	Field Name	Req'd	Comments
35	MsgType	Y	MsgType = '9'
11	ClOrdId	Y	Unique ID for the day. Should be 22 characters or less. Duplicate ClOrdId's will be rejected.
41	OrigClOrdID	Y	ClOrdID of the order to cancel.
37	OrderID	Y	OrderID supplied by Deutsche Bank on the order acknowledgement.
39	OrdStatus	Y	OrdStatus of order that failed to be cancelled.
102	CxlRejReason	Y	All valid FIX values
58	Text	Y	Free form text message
434	CxlRejResponseTo	Y	Identifies the type of request that a Cancel Reject is in response to.

# Order Cancel/Replace Request

Tag	Field Name	Req'd	Comments
35	МѕдТуре	Y	MsgType = 'G'
1	Account	Y	Reflected back on execution reports associated with this order (optional).
11	ClOrdId	Y	Unique ID for the day. Should be 22 characters or less. Duplicate ClOrdld's will be rejected.
41	OrigClOrdID	Y	ClOrdID of the order to cancel/replace.
21	Handlinst	Y	Required on replace requests.
18	ExecInst	Y	Not Held = '1' (required for ATS)



			Instructions for order handling for pegging
			(optional).
			Midpoint Peg = 'M'
			Market Peg = 'P'
			-
			Primary Peg = 'R'
			Example for Midpoint Peg with Not Held
60			instruction = '1 M' or 'M 1'
60	TransactTime	Y	Time the order cancel order replace request was
			initiated by the counterparty. Must be in GMT
			timestamp
55	Symbol	Y	Symbol (upper case).
65	SymbolSfx	N	Required if applicable.
54	Side	Y	Buy = '1'
			Sell = '2'
			Sell Short = '5'
			Sell Short Exempt = '6'
38	OrderQty	Y	Number of shares for this order.
40	OrdType	Y	Market = '1'
			Limit = '2'
44	Price	N	Limit Price for the Limit orders.
110	MinQty	N	Minimum fill quantity (optional).
47	Rule80A	Y	Valid values as per the FIX protocol.
59	TimeInForce	N	Day = '0' (default) IOC = '3'
114	LocateReqd	Ν	'N' = Indicated the broker is not required to
			locate. Required for Sell Short orders.
5700	LocateBroker	N	String. Required locate code for Sell Short orders.
1688	ShortSaleExemptionReason		0 = Exemption Reason Unknown
1000			1 = Incoming Short Sale Exempt
			2 = Above National Best Bid (Broker Dealer
			Provision)
			3 = Delayed Delivery 4 = Odd-Lot
			5 = Domestic Arbitrage
			6 = International Arbitrage
			7 = Underwriter or Syndicate Distribution
			8 = Riskless Principal
		_	9 = VWAP
9110	MinQtyCounterpartyRule	Ν	ID of the rule that will be applied to the order.



## Symbology

Туре	Suffix (Tag 65)	Examples
Series (or Class) A-T and V-Z	<v></v>	ZZZ/A
Series (or Class) A-T and V-Z When Issued	<v> WI</v>	ZZZ/AWI
Preferred	PR	ZZZ/PR
Preferred Series A-T & V-Z	PR <v></v>	ZZZ/PRA
Preferred Series A-T & V-Z Called	PR <v>CL</v>	ZZZ/PRACI
Preferred Series A-T & V-Z Called When Issued	PR <v>WI</v>	ZZZ/PRAWI
Preferred When Issued	PRWI	ZZZ/PRWI
Preferred Called	PRCL	ZZZ/PRCL
Rights	RT	ZZZ/PT
Units (a combination of securities composed of two or more	U	ZZZ/U
of warrants, common stocks, preferred stocks and/or bonds)		
When Issued	WI	ZZZ/WI

## **Frequently Ask Questions**

Contact <a href="mailto:superx.us@list.db.com">superx.us@list.db.com</a> for a copy of the FAQ supplemental document.