FX Trading Fix Engine API

Gain Capital

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Document Management

Version	Author	Date	Description
1.0.0	Phil Cave	16th Oct 2006	First release.
1.1.0	Phil Cave	17th Nov 2006	Added documentation for ResetSeqNumFlag (141) in the Logon Message. Corrected document message types for Trading Session Status Request, Trading Session Status, Collateral Inquiry. Added default PosType(703) to Position Maintenance Report to make message Fix Compliant. Corrected ClOrderId, OrigClOrderId semantics in Order Cancel Request Message, Order Cancel Reject, Execution Report to make message Fix Complaint.

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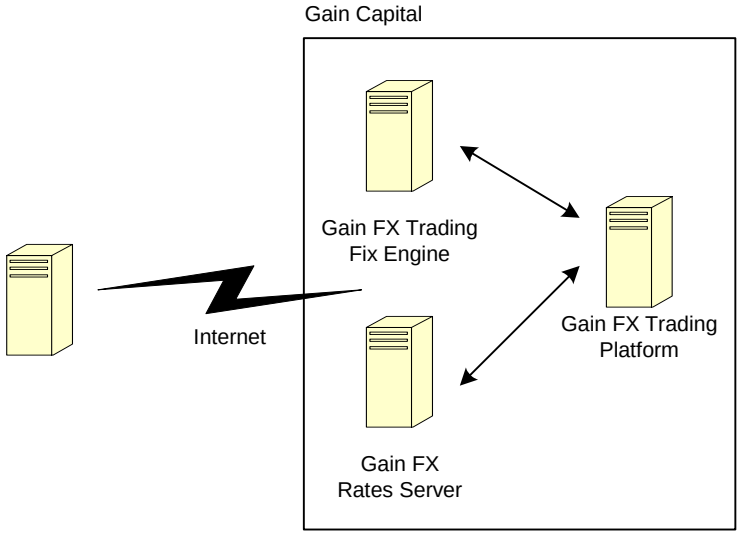
1. Introduction

The purpose of this document is to provide an overview of the Gain FX Trading Fix Engine API. This document provides the technical information required by third party companies to integrate with Gain Capital's trading system via the Fix Engine API.

2. System Overview

The Gain FX Trading Fix Engine Server provides a gateway to Gain FX Trading Platform. The follows diagram illustrates the system.



2.1 Configuration

The following sections describe the Gain Fix Engine Server Configuration.

2.1.1 Fix Session Configuration

The Gain Fix Engine Server uses the Fix Protocol 4.4. The Fix Engine Server provides access to the following Fix Session Connections:

- **Order Fix Session**. This is the primary fix session for a client; it provides access to the Gain FX Trading Platform. Allowing clients to submit orders, cancel orders and query margin and positions.

- **Price Fix Session**. This is a secondary fix session that allows clients to access Gains FX Rates via a Fix Session. Due to the nature of Rates messages this session uses a non-persistent fix session.

For clients using both *Order Fix Session* and *Price Fix Session* they should logon to both Fix Sessions separately using the same security credentials.

Gain recommend for performance reasons that clients connect directly to the Gain FX Rates Server using a raw TCP/IP socket connection for Rate Information. The following URL provides online information on the Gain Capital FX Trading platform including information on how to connect to the Gain FX Rates Server.

http://api.efxnow.com/docs/Default.htm

The Gain Rates Server requires a **Rates Server Key** when you first connect to the server. This key is sent in the Fix Message **Trading Session Status** when the Trading Status is "Open" on the *Order Fix Session* or alternatively available via Gain FX Trading Platform using web service calls.

2.1.2 Fix Engine Configuration Defaults

The followings default parameters should be set when configuring your client Fix Engine.

Parameter	Value	Description
BeginString	FIX.4.4	Fix Protocol version
Encryption	N	No Encryption Support
TargetCompId	GAIN.FXSERVER	Gain's Fix Server Id.
StartTime	22:05:00	Start time expressed as UTC.
EndTime	22:00:00	End time expressed as UTC.
Sequence Reset	NA	Sequence number reset at the end of each trading day.
Heart Beat Interval	20	Heartbeat check interval expressed in seconds
Reconnect Interval	60	Reconnection interval expresses in seconds.

Gain Capital Support will provide the Fix Engine Host/Port, SenderCompId and TargetCompId for Order and Price session (if required) when a Gain FX Fix Engine Account is setup.

2.1.3 Trading Times

The FX trading platform is open for trading weekly from Sunday 5.00pm EST to Friday 4.30pm EST. The trading platform is closed for maintenance between 5.00pm EST to 5.05pm EST Monday – Thursday. The system will send a *Trading Closed* message before maintenance starts and a *Trading Open* message when maintenance is complete, see **section 3.4.2** for more details on these messages. Gain Capital are continual improving and reducing the maintenance downtime, so system should utilize the *Trading Closes/Open Messages*.

Fix Engine sequence numbers are reset by default on a daily basis. Client requiring longer-term fix sessions are handled on a client by client basis.

2.1.4 Currency Pair Definition

The forex Symbol (Currency Pair) is defined in "EBS" (Electronic Banking System) Format: "CCY1/CCY2". Rates are expressed as "Currency2 per Currency1". All Order and Quote Sizes are expressed as base currency "CCY1".

2.1.5 ClOrderIds

The ClOrderId field passed by clients can be alphanumeric values upto 255 characters maximum. For each login account these Id's must be ***totally unique and never repeated***. We recommend clients append a "Current Date String" before their Ids if they are unique on a daily basis only.

2.1.6 Accounts

The Account field passed by clients must be a valid Gain Capital sub account customer code. The customer codes will be allocated by Gain Capital for your customers during the setup of your Fix Engine Server Account.

If you prefer to use your own Account values the system will also accept **Extended Accounts**. Extended Accounts can upto 32 character alphanumeric values. These values must be unique for each customer.

In order to use Extended Accounts you must specify during the login process that your Accounts will be in the Extended format, see **section 3.3.1** for more details on the login message. When you login using Extended Account format, you simply place your own account information in the "Account" field.

Note: In order to use Extended Accounts you must contact Gain Capital Support and provide your Account details so that they can be mapped to Gain Capital Sub account customer codes.

3. Fix Messages

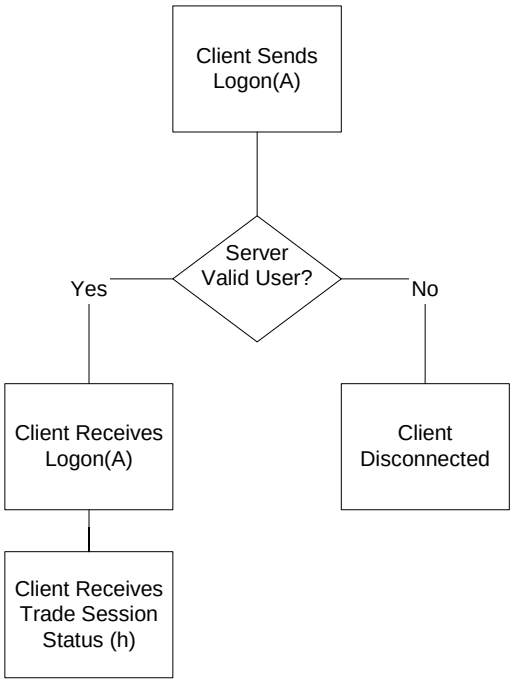
This section describes all the Fix Messages flows within the system and the Fix Message structures.

3.1 Message Flows

The following sections illustrate the Fix Message flows within the system.

3.1.1 Logon Message Flow

The following flowchart illustrates the Logon Message Flow.

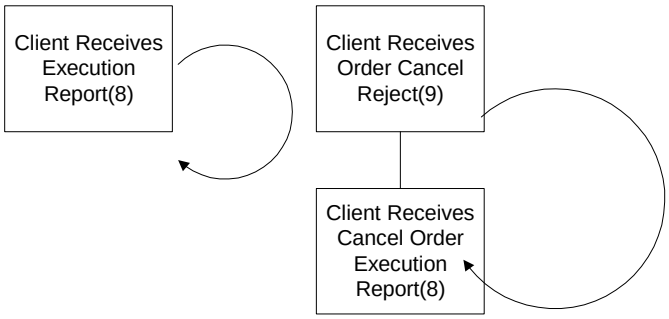


The client sends the initial **Logon** message and waits for a subsequent **Logon** message as confirmation followed by a **Trading Session Status** message. Clients should only send further application messages when the trading status is set to "Open". The **Trading Session Status** message also contains the "*Rates Server Key*" when the Trade Status is set to "Open". If a client sends invalid login credentials the client will be disconnected.

On successfully Logon the **Pending Order Message Flow** is executed by the Fix Engine Server. This is described in the following section.

3.1.2 Pending Order Message Flow

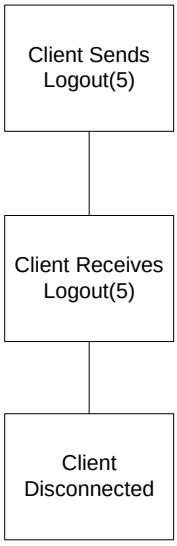
The following flowchart illustrates the Logon Message Flow.



The Pending Order Message Flow sequence is executed by the Fix Engine Server after a successful Logon to the system. The purpose of this message flow is to provide the Fix Engine Client with the status of all fix orders in a non-terminated state after the previous Logout. The system returns the status of orders that were previously in the "*Pending New*", "*Pending Cancel*" and the "*New*" order status. For orders in the "*Pending Cancel*" status which have subsequently failed to cancel the Fix Engine returns a **Order Cancel Reject** message followed by the orders current status in an **Execution Report** message. For orders which have not to have changed state the **PossResend** (97) Flag is set to "Y:".

3.1.3 Logout Message Flow

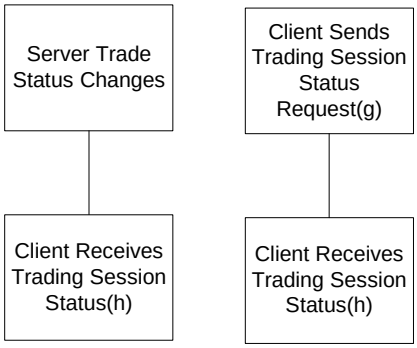
The following flowchart illustrates the Logout Message Flow.



The client sends a **Logout** message, the server sends back a **Logout** message and terminates the connection.

3.1.4 Trade Session Status Message Flow

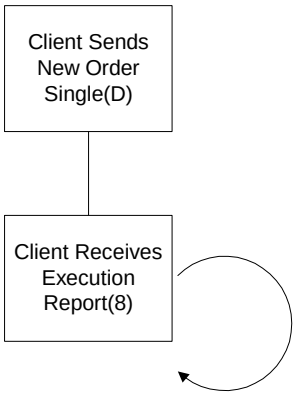
The following flowchart illustrates the Trade Session Status Message Flow.



The server will implicitly sends a **Trading Session Status** message whenever the trading session status changes. Additionally if a client sends a **Trading Session Status Request** the server will respond with a snapshot of the trading server status.

3.1.5 Order Request Message Flow

The following flowchart illustrates the Order Message Flow.

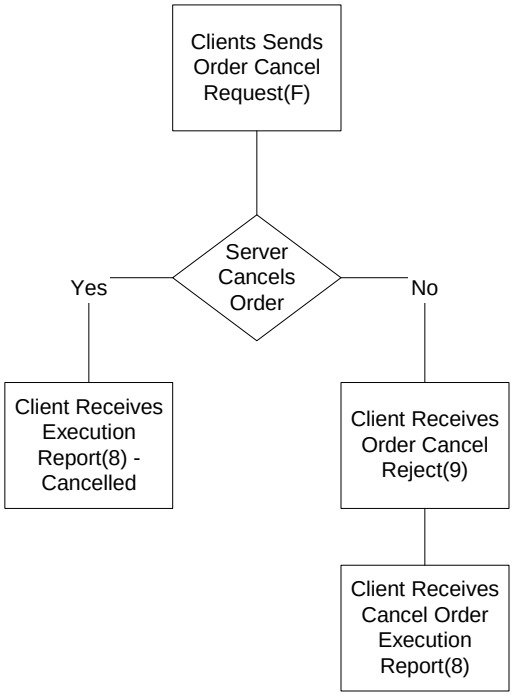


The client sends a **New Order Single** message with the new order request details to submitted orders to the trading system. The server validates the request and sends the order to the trading system for execution. The server sends **Execution Report** messages to the client as the order is processed by the trading system and its order status is changed.

In certain circumstances the Fix Engine Server will send unsolicited **Execution Report Messages**. Unsolicited orders can occur when an account has exceeded margin rules which causes a liquidate trade, or backend/customer services trade are entered on behalf of the customer i.e. telephone order. These messages are detected by inspecting the **SolicitedFlag Field(377)** in the Execution Report Message, the value is **N** for these types of report message. The **Custom Unsolicited Reason field (5006)** provides the reason for the unsolicited order.

3.1.6 Order Cancel Request Message Flow

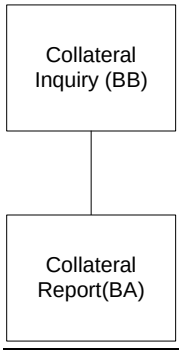
The following flowchart illustrates the Order Cancel Request Message Flow.



The client sends an **Order Cancel Request** message to cancel an existing order. The server validates the request and sends an **Execution Report** (Cancelled) message if successful otherwise it sends an **Order Cancel Reject** message if it fails to cancel followed by an **Order Execution Report** which contains the current status of the order.

3.1.7 Collateral Inquiry Message Flow

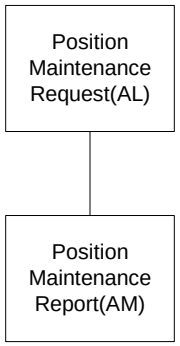
The following flowchart illustrates the Collateral Inquiry Message Flow.



The client sends **Collateral Inquiry** to request the collateral status of a specified account. The server returns a **Collateral Report** message which contains the collateral details of the specified account.

3.1.8 Position Maintenance Request Message Flow

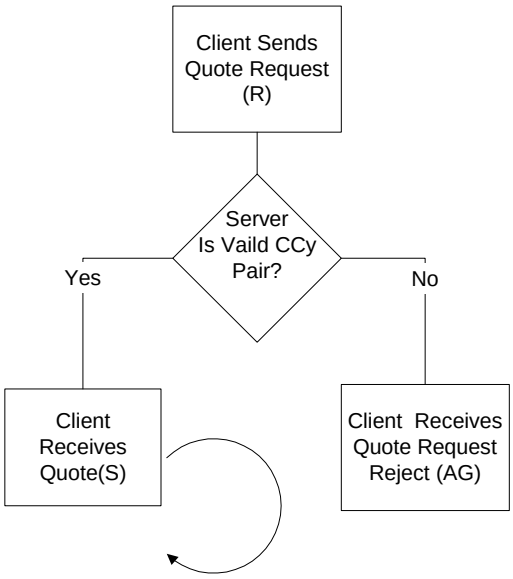
The following flowchart illustrates the Position Request Message Flow.



The client sends **Position Maintenance Request** to request the active positions of a specified account. The server returns a **Position Maintenance Report** message which contains the active position details of the specified account.

3.1.9 Quotes Message Flow

The following flowchart illustrates the Quote Message Flow. This message flow is only available on the *Price Fix Session* connection. If a *Quote Request* message is sent on the *Order Fix Session* connection the system will ignore the request.



The client sends a **Quote Request** message with one or more currency pairs defined. The server validates the request, for any invalid currency pairs the server replies with a **Quote Request Reject** message for each invalid currency pair. For successful request the server streams **Quote** update messages for all valid currency pairs when their prices change. **Quote** update messages are streamed until the session is terminated. Clients must resend any **Quote Request** messages every time they logon in order to receives streaming quote updates.

3.2 Message Header/Trailer

The following table defines the standard fix header required for all messages:

Tag	Name	Req	Description	Example
8	BeginString	Y	Represents the Fix Protocol version.	FIX.4.4
9	BodyLength	Y	Message length in bytes.	142
34	MsgSeqNum	Y	Message sequence number.	1
35	MsgType	Y	Message type of the message following the header.	A
49	SenderCompId	Y	Sender assigned CompID	TRDCORP.FXCLIENT
56	TargerCompId	Y	Gain Capital Target CompID	GAIN.FXSERVER
52	SendingTime	Y	Time message sent expressed in UTC.	20050315-10:01:07
97	PossResend*	N	Possible Resend Flag	N

The PossResend field is only used in **Execution Report (D)** messages. It is used to indicate if an execution report may have already been sent.

The following table defines the standard fix trailer defined for all messages:

Tag	Name	Req	Description	Example
10	CheckSum	Y	Calculated checksum of message	7E4

3.3 Administrative Messages

The Gain FX Fix Engine server supports the following administrative messages:

- Logon
- Logout
- Heartbeat
- Test Request
- Resend Request
- Session Level Reject
- Sequence Reset(Gap Fill)

3.3.1 Logon Message

The following table defines the Logon Message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Logon message type code	A
553	Username	Y	Fix account username and brand and options mask.	fix@tradecorp.com:FXBRAND:1
554	Password	Y	Fix account password	tradecorp123
141	ResetSeqNumFlag	N	Resets the sequence no's.	N

The gain trading platform requires all user accounts to be assigned a brand. The username field in the logon message is used to pass the username, brand and options mask concatenated together: "username:brand:options" for example: "fix@tradingcorp.com:FXBRAND:1".

The options mask allows the Fix Client to control the following extensions:

- Option Mask 1 is Extended Account, allows clients to send their own Account names instead of Gain Capitals Sub Account Code.

The value sent as the Options mask is the sum of the options required. Since Extended Account is the only available Option Send 1 if you require Extended Accounts and nothing or 0 if you do not.

The **ResetSeqNumFlag(141)** allows clients to force a sequence number reset. Useful if the client fix engine is having problems synchronizing sequence numbers with the fix engine server.

3.3.2 Logout Message

The following table defines the Logout Message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Logout message type code	5
58	Text	N	Optional provides a reason for logout if unexpected.	Trading Service closed for maintenance upgrade.

3.4 Application Messages

The following sections define the application specific messages.

3.4.1 Trading Session Status Request

The following table defines the Trading Session Status Request fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Trading Session Status Request message type code	g
263	SubscriptionRequestType	Y	Subscription Request type. Always '0' a snapshot request.	0
335	TradSesReqID	Y	Unique Id representing this trade request id	TRDCORP_123

3.4.2 Trading Session Status

The following table defines the Trading Session Status fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Trading Session Status message type code	h
340	TradSesStatus	Y	Trading session status	2
336	TradingSessionId	Y	Trading Session ID	Open
5003	Custom RatesServerKey	N	Rates Server Key passed to Rates Server	A900878756767AFDE8
58	Text	N	Textual description of the status.	Rates Server down.

Clients receive trading session status messages whenever the trading server status changes and after a subsequent trading session status request. The **TradeSesStatus** can return the following values:

- 2 – Open
- 3 – Closed

If the system sends a trading status of "Closed" any active quotes message are considered non-dealable. The Rates Server Key is only sent when the trading status is "Open".

3.4.3 New Order Single

The following table defines the New Order Single fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	New Order Single message type code	D
11	ClOrderId	Y	Unqiue ID representing this order passed from the client.	123456789
1	Account	Y	Represents the Account to submit the order on behalf of.	T001
40	OrderType	Y	Represents the Order Type: Market '1', Limit '2', Stop '3', Limit or Better '7'	2
54	Side	Y	Represents the order side of the market Buy '1' Sell '2'.	1
55	Symbol	Y	Represents the currency pair of the order	GBP/USD
38	OrderQty	Y	Represents the Qty of the order.	10000
44	Price	Y	Represents the price of the order	182.90
99	StopPx	Y	Represents the Stop Price if stop order. Set to 0.0 if not used.	0.0
59	TimeInForce	Y	Represents the Expiry Time of the order. EOD '0', GTC '1', FOK '4'.	1
60	TransactTime	Y	Time of transaction expressed in UTC.	20050315-10:01:07

The **New Order Single** message is used to submit new orders to the trading system. The ClOrderId passed by the client must be a unique value, see **section 2.1.3** for further details on ClOrderId. The order will be place on behalf of the **Account** specified, see **section 2.1.4** for further details on account.

The **Order Type** can be one of the following:

- **Market** – A market order executes the order immediately using the quantity specified in OrderQty, the price executed is returned in the subsequent Execution Report. The order is executed against the top of the market. Price and TimeInForce are not applicable to Market Orders.
- **Limit** – A limit order is added to the system at the price and quantity specified. If the TimeInForce is set to "Fill or Kill" then the limit order is added, if it can be filled at the price/qty specified then the order is executed, if the order cannot be filled then the order is killed i.e rejected. Limit orders with a TimeInForce of "End Of Day" are cancelled by the system at the end of the trading day if they are not executed or rejected. Limit orders with a TimeInForce of "Good Till Cancelled" can only be cancelled with an **Order Cancel Request** message.

- **Limit Or Better** – A limit order is added to the system at the price and quantity specified, if the limit order can be filled at the *limit price or better* then the order is filled immediately at the *best price*. If the limit order cannot be filled it is placed on the order book at the specified price and quantity. Limit or Better orders placed on the order book behave in the same way as standard limit orders.

- **Stop** – A stop order is added to the system at the stop price and quantity specified. TimeInForce can be "End of Day" or "Good-Till-Cancelled."

3.4.4 Execution Report

The following table defines the Execution Report fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Execution Report message type code	8
17	ExecID	Y	Unique ID representing this execution report	63256789009
11	ClOrderId	Y	Unique ID representing the order passed from the client. Numeric integer value up 18 digits .	123456789
41	OrigClOrderId	N	Unique ID represents the original order id, i.e the cancelled orders clOrderId.	123452345
37	OrderId	Y	Unique ID represents this order on the Trading System.	18012345
39	OrdStatus	Y	Order Status of specified order	0
150	ExecType	Y	Order Status specified in this report.	0
1	Account	Y	Represents the Account to submit the order on behalf of.	T001
40	OrderType	Y	Represents the Order Type: Market '1', Limit '2' or Stop '3'	2
54	Side	Y	Represents the order side of the market Buy '1' Sell '2'.	1
55	Symbol	Y	Represents the currency pair of the order	GBP/USD
38	OrderQty	Y	Represents the Qty of the order.	10000
44	Price	Y	Represents the price of the order	182.90
99	StopPx	Y	Represents the Stop Price if stop order. Set to 0.0 if not used.	0.0

31	LastPx	Y	Represents the Filled Price of the order. Set to 0.0 if not filled	182.90
32	LastQty	Y	Respresents the Filled Qty of the order. Set to 0 if not filled	0
59	TimeInForce	Y	Represents the Expiry Time of the order. EOD '0', GTC '1', FOK '4'.	1
377	SolicitedFlag	Y	Y is order solicited, N if executed by Trading System on behalf of Account.	Y
5006	Custom Unsolicited Reason	N	Represents the reason for Unsolicited Order. 0 – Unknown 1 – Liquidated Trade 2 – Backend Trade 3 – Customer Services Trade 4- Backend Order	0
58	Text	N	Textual description of Report.	
5002	Custom TradePnL	N	Represents PnL from filled orders.	1503.72
5004	Custom TradeSourceApp	Y	Represents the source application of the fix order.	FIX
5005	Custom TradeSourceUsername	Y	Represents the username ssociated with fix order on source application.	fix@tradecorp.com:FXBRAND
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-0:01:07

The **Execution Report** message is sent by the server when the status of an order changes in the trading system. The message contains the status of the order and also provides all the order details. The following order status's are returned by the system:

- **Pending New** 'A' – Initially state of order when added to the system.
- **New** '0'– Status of order when accepted by the system.
- **Filled** '9' – Status of order when executed on the system.
- **Rejected** '8' – Status of order when rejected by the system. The Text field contains a descriptive message of the failure.
- **Cancelled** '4' – Status of order when successfully cancelled by the system.
- **Expired** 'C' – Status of the order when it has expired**.**
- **Suspended** '9' – Status of the order is suspended.

Orders can be **Suspended '9'** when events in the market have occurred which require order to be handled using Dealer Intervention. Once an order is in suspended the FIX client cannot change the state of the order i.e send order cancel request. A dealer will process this order by ***Filling, Rejecting, Cancelling or Re-Opening*** the order. In a production environment suspended orders are processed on a case by case basis. Suspended Orders are not a common occurrence, but should be handled by your system.

When the OrdStatus is **Cancelled '4'** the **ClOrderID(11)** contains the id of the *Order Cancel Request message* and the **OrigClOrderID(41)** contains the id of the order which has been cancelled.

When the order is executed by the Trading System on behalf of the account the **SolicitedFlag(377**) field is set to "N" and the **CustomUnSolicitedReason(5006)** field is set with the appropriate reason code. The **ClOrderID(11)** is set to blank value for Unsolicited Orders. Unsolicited orders can occur when an account has exceeded margin rules which causes a liquidate trade, or backend/customer services trade are entered on behalf of the customer i.e telephone trade.

The **PossResend (97)** field (part of standard header) is set to "Y" when the system detects the report may have already been sent. This typically happens during the initial logon when the pending order status's are re-requested.

The Custom *TradePnl* (tag value 5002) field is a custom field added to the fix message definition. Client implementations should add this to their fix specification.

The Custom *TradeSourceApp* (tag value 5004) and Custom *TradeSourceUsername* (tag value 5005) fields provide the details of the source of the Fix Order, generally this will be FIX and the logged on Username details. However in the case of Unsolicted Orders this will provide the source detail information of the Unsolicted Order.

3.4.5 Order Cancel Request

The following table defines the Order Cancel Request fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Order Cancel Request message type code	F
11	ClOrderId	Y	Unquie ID representing this order cancel message.	123434456
41	OrigClOrderId	Y	Unquie ID representing the ClOrderId of the order to cancel.	123456789
37	OrderId	N	Unique ID represents the OrderId of the order to cancel.	18012345
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-10:01:07

The **Order Cancel Request** message can be used to cancel currently active orders. Active orders are orders in the "New" order status only. Orders which have been "Filled", "Rejected", "Expired" or "Cancelled" cannot be cancelled. By definition *Market* and *Limit - Fill or Kill* orders cannot be cancelled. When an order is cancelled successfully an **Execution Report** message with a status of *Cancelled* is sent. When an order fails to cancel an **Order Cancel Reject** message is sent, followed by an **Execution Report** of the order.

When cancelling Unsolicited Orders where no OrigClOrderId is available the **OrderId(37)** should be passed to cancel the Order

3.4.6 Order Cancel Reject

The following table defines the Order Cancel Reject fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Order Cancel Reject message type code	9
11	ClOrderId		Unquie ID representing the order cancel request message.	123434456
41	OrigClOrderId	Y	Unquie ID representing the ClOrderId of the order to cancel.	123456789
37	OrderId	Y	Unique ID represents the order	18012345

			on the Trading System.	
58	Text	N	Textual description of failure	Order Unknown.
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-10:01:07

The **Order Cancel Reject** message is sent in response to an **Order Cancel Request** message which fails to cancels its order. The *Text* field may contain a description of the failure reason. An **Execution Report** message of the order is sent after this message, this allows the fix engine client to verify the true state of the order.

When an Unsolicited Order is rejected where no OrigClOrderId is available the **OrigOrderId(37)** should be used to identify the Order.

3.4.7 Collateral Inquiry

The following table defines the Collateral Inquiry message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Collateral Inquiry messsage type code	BB
909	ColInquiryID	Y	Unquie ID representing the Inquiry.	123456789
1	Account	Y	Represents the Account to submit the inquiry on behalf of.	T001
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-10:01:07

The **Collateral Inquiry** message can be used to request the collateral status of the specified account. The server returns a **Collateral Report** message for the specified account in response to this request.

3.4.8 Collateral Report

The following table defines the Collateral Report message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Collateral Report message type code	BA
909	ColInquiryID	Y	Unique ID of inquiry that this report maps to.	123456789
1	Account	Y	Represents the Account the report is associated to.	T001

15	Currency	Y	Currency values are specified. Always USD.	USD
901	CashOutstanding	Y	Cash Outstanding	1000
921	StartCash	Y	Start Cash Value	210200
922	EndCash	Y	End Cash Value	357230
898	Margin Ratio	Y	Margin Ratio percent	2
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-10:01:07

The **Collateral Report** message is sent in response to a **Collateral Inquiry** message. This report contains the collateral details of the account specified in the inquiry.

3.4.9 Position Maintenance Request

The following table defines the Position Maintenance Request message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Position Maintenance message type code	AL
710	PosReqID	Y	Unquie ID representing the Request.	123456789
1	Account	Y	Represents the Account to submit the Request on behalf of.	T001
60	TransactTime	Y	Time transaction expressed in UTC.	20050315-0:01:07

The **Position Maintenance Request** message can be used to request the active positions of the specified account. The server returns a **Position Maintenance Report** message for the specified account in response to this request.

3.4.10 Position Maintenance Report

The following table defines the Position Maintenance Report Message fields:

Tag		Name	Req	Description	Example
35		MsgType	Y	Position Maintenance Report message type code	AM
710		PosReqID	Y	Unique Id representing the initial position request	123456789
1		Account	Y	Represents the Account for this report	T001
702		NoPositions	Y	No of positions in the following repeating group.	5
703	→	PosType	Y	Constant value, added to make message Fix Complaint.	TQ
704	→	LongQty	Y	Represents Long Position Amount	200000
705	→	ShortQty	Y	Represents Short Position Amount	0
5000	→	Custom Symbol	Y	Represents the Currency Pair of the Position	GBP/USD
5001	→	Custom AvgPx	Y	Represents the AvgPx at the position.	69.23
60		TransactTime	Y	Time transaction expressed in UTC.	20050315-0:01:07

The **Position Maintenance Report** message is sent in response to a **Position Maintenance Request** message. This report contains the active position information of the account.

The *Custom Symbol* (tag value 5000) and *Custom AvgPx*(tag value 5001) fields are customs fields added to this message definition. Client implementations should add this to their fix specification.

3.4.11 Quote Request

This message must be sent from the *Price Fix Session*, if sent from the *Order Fix Session* the message will be ignored. The following table defines the Quote Request Message fields:

Tag		Name	Req	Description	Example
35		MsgType	Y	Quote Request message type code	R
131		QuoteReqID	Y	Unique Id representing this quote request	TRDCORP_Q12345
146		NoRelatedSym	Y	No of symbols in following repeating group.	5
55	→	Symbol	Y	Represents Currency Pair requesting quotes for.	GBP/USD

3.4.12 Quote Request Reject

This message will only be sent from the *Price Fix Session.* The following table defines the Quote Request Reject Message fields:

Tag		Name	Req	Description	Example
35		MsgType	Y	Quote Request Reject message type code	AG
131		QuoteReqID	Y	Unique Id representing the initial quote request	TRDCORP_Q12345
658		QuoteRequestRejectReason	Y	Reason for rejection	1
146		NoRelatedSym	Y	No of symbols in following repeating group.	1
55	→	Symbol	Y	Represents Currency Pair requesting quotes for.	GBP/USD

The Quote request reject message is sent usually when an unknown currency pair is requested. In the current implementation 1 Quote request reject message is sent for each unknown currency pair, however this is subject to change in the future.

3.4.13 Quote

This message will only be sent from the *Price Fix Session*. The following table defines the Quote Message fields:

Tag	Name	Req	Description	Example
35	MsgType	Y	Quote Request message type code	S
263	QuoteId	Y	Unique representing this quote	GBPUSD123456
335	Symbol	Y	Represents the Quote Currency Pair	GBP/USD
132	BidPx	Y	Represents the bid price of the quote	182.88
133	OfferPx	Y	Represents the offer price of the quote	182.90
134	BidSize	Y	Represents the maximum bid size for the quote	10000000
135	OfferSize	Y	Represents the maximum offer size of for the quote.	10000000

Quote are valid until super-seeded by a new quote or until the trading status signals a trading closed message. When a trading closed message is sent, all existing quotes are considered non-dealable. Quotes messages with a Bid Size and/or Offer Size of 0 are also considered non-dealable.

4. Support

To obtain support please contact Ravi Srikantan, GAIN|Capital, at 908-731-0758, at rsrikantan@gaincapital.com.