



## IRESS FIX ENGINE

### Release Notes & Future Development List Felix Version 1.98 sp2

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## Release Notes

### Felix Version 1.98 sp2

#### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	Order recovery handling issues that occurred when an IOS is reported as online and offline multiple times have now been resolved.
IRESS FIX Engine	For IRESS FIX Engines running in client and market order mode, order recovery now occurs correctly for the entry of new orders.
Indications of interest	<p>The IRESS FIX Engine now takes into account different sequence scenarios with the inclusion and exclusion of organisations for IOI messages outgoing to the IOS.</p> <p>For example, if an IOI has been amended in IOS to now include an organisation the IRESS FIX Engine is watching, this will be sent as a New IOI message, that is, <b>tag 28 (IOITransType)=N</b> rather than <b>tag 28=R</b>.</p>
Execution Report	For price type amendments to market orders for AXW exchange, a Cancel Execution Report is no longer sent when a change is made.

### Felix Version 1.98 sp1

#### Enhancement

Message/Item	Description
Execution Report	A new setting on the IRESS FIX Engine allows <b>ExecID (tag 17)</b> to be provided in the Execution Report without a dash character. Please contact IRESS FIX support to enable this setting.

#### Bugs Fixed

Message/Item	Description
Trading Session Status Request	IRESS FIX Engine 1.98sp1 is the minimum upgrade version or new setup version for any clients wishing to send through Trading Session Status Requests on the phoenix server version Neo 1.01.
IRESS FIX Engine	For setups where multiple TargetIDs on one IRESS FIX Engine use the same username to login to the IOS, the issue with recovery for the entry of new orders has now been resolved.

## Felix Version 1.98

### Enhancement

Message/Item	Description
Confirmation	Electronic Trade Confirmation (ETC) Clearing Participant details are now auto-populated in the IOS when provided in the inbound confirmation message.
Order Cancel/Replace Request	In client order mode, a Cancel Execution Report is now sent if an Order Cancel/Replace Request was sent to match the volume on a partially filled order. Previously a Reject Execution Report would be sent with the message "can't amend to done volume".
Allocations/Indication of Interest	Short Sell ( <b>tag 54 (Side)=5</b> ) and Short Sell Exempt ( <b>tag54 (Side)=6</b> ) are now accepted for these message types.
Confirmation	The <b>AllocID (tag 70)</b> value is now available in the IOS column, AssocID, to ensure the Allocation and ETC are linked.
Confirmation ACK	The ETC rejection reason is now provided in <b>Text (tag 58)</b> .
Confirmation	<p>Inbound Confirmation messages can now set ETCs to the SENT state, bypassing the PENDING state, if the correct ETC details have been provided. This is configured by a setting on the IRESS FIX Engine.</p> <p>Please contact IRESS FIX support if you would like to enable this functionality.</p>

### Bugs Fixed

Message/Item	Description
New Order - Single	If the volume on a client order with order type DEF has been amended down to 0 and then cancelled in IOS, the next client order created will use the correct DEF client order type rather than 1.
Execution Report	A Trade cancellation after a cancelled client order now provides the correct value in <b>LeavesQty (tag 151)</b> .
Confirmation	For sessions where the setting 'prices in dollars' is enabled, <b>Commission (tag 12)</b> is no longer converted.
IRESS FIX Engine	Order Routing Hub sequence number and heartbeat issues have now been resolved.

## Felix Version 1.97 sp5

### Enhancement

Message/Item	Description
FIX Engine	For connections running in IOS Plus mode, amendments to the sell type can now be made to Long Sale, Short Sale and Exempt Short Sale orders.

## Felix Version 1.97 sp4

### Enhancement

Message/Item	Description
FIX Engine	For connections running in IOS Plus mode, in the ITS Phase 1 environment, <b>tag 54 (Side)</b> now provides the appropriate value for short sell and short sell exempt orders.

### Bugs Fixed

Message/Item	Description
Execution Report	For price type amendments to market orders, a Cancel Execution Report is no longer sent when a change is made. <b>Note:</b> - Only IRESS FIX Engines running 1.97sp1 and above were effected.

## Felix Version 1.97 sp3

### Enhancement

Message/Item	Description
Execution Report	Further changes for short sell and short sell exempt market orders, to report the expected tag 54 value in IRESS FIX Engine Execution Reports with the ITS Phase 1 environment, are now available. <b>Note:</b> FIX Engine 1.97sp3 is now the minimum required version for any existing FIX Engines or newly setup FIX Engines in market order mode.

## Felix Version 1.97 sp2

### Bugs Fixed

Message/Item	Description
Execution Report	For FIX connections setup in both client and market order mode, trade Execution Reports will be ignored upon recovery for unsolicited market orders.
New Order - Single	Multi-day short sell ( <b>tag 54=5</b> ) or short sell exempt ( <b>tag 54=6</b> ) client orders are now correctly cleared from the open orders cache upon deletion.
Order Cancel Reject	Subsequent actions on an order that has failed due to an Order Cancel/Replace Request or Order Cancel Request rejection will now report correctly to the IRESS FIX Engine. This issue only affected connections setup to allow IOS Depth functionality.

## Felix Version 1.97 sp1

### Enhancements

Message/Item	Description
FIX Engine	Treatment of multi-day client orders has been enhanced with support of ( <b>tag 424 (DayOrderQty)</b> ), ( <b>tag 425 (DayCumQty)</b> ), and ( <b>tag 426 (DayAvgPx)</b> ).
	Sell type attributes for the ASX exchange have been updated on the IRESS FIX Engine to create the relevant tag 54 (Side) value on creation of 'Long', 'Short' or 'Short Exempt' orders in IOS. The new short selling features are available with IOS Insto 1.66sp1 and IOS Retail 1.97sp5 server versions.

### Bugs Fixed

Message/Item	Description
Trading Session Status	TradingSessionStatus was not responding to the first request, until another request was received or the market phase transitions. This has now been resolved.
FIX Engine	Issue has been resolved whereby the FIX engine no longer writes to a log file directory which is not available on the server.
	Recovery timing issue when running in both client and market mode has now been fixed. Market orders are no longer being reported as cancelled upon recovery if they still exist in the market.
Execution Report	For an order that is lost in recovery or deleted whilst in pending replace is now reported as cancelled to the FIX Client.

## Felix Version 1.97

### Enhancements

Message/Item	Description
IRESS FIX Engine	<p>A new setting to suppress Restate Execution Reports (<b>tag 150 (ExecType) = d</b>) is now available.</p> <p><b>Note:</b> -This setting is only available for IRESS FIX Engines running in market order mode.</p>
	<p>A new setting to prohibit Short Sell market orders (<b>tag 54 (Side) = 5</b>) is now available for the ASX exchange.</p>
	<p>The ASX exchange order ID can now be sent in a nominated FIX tag.</p>
	<p>A new setting is available to prevent FIX Engines running in client mode from connecting on a weekend.</p>
Confirmation and Confirmation ACK	<p>Confirmation and Confirmation ACK messages for creating ETCs in IOS are now supported through the IRESS FIX Engine.</p> <p>Please refer to the IRESS FIX Engine Technical Specifications for details of supported tags for these messages.</p> <p><b>Note:</b> - These messages require a minimum FIX protocol version of 4.2.</p>
Indication of Interest	<p>A new setting is available to enable individual outgoing Indication of Interest messages to be sent for each (<b>tag 216 (TargetFirm) =1</b>).</p>
New Order - Single	<p>Duplicate orders received with (<b>tag 97 (PossResend) =Y</b>) are now ignored by the FIX Engine. Previously a Reject Execution Report was sent in response.</p>

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	<p>In certain specific circumstances, the trade update processing for market orders could cause slowness on the FIX Engine. This issue is now resolved.</p>
Execution Report	<p>Both sides of a crossed trade are now reported during IRESS FIX Engine client order trade recovery.</p>

## Felix Version 1.96 sp3

### Enhancements

Message/Item	Description
Business Message Reject	IOS brokers are now notified if a Business Message Reject ( <b>tag 35 (MsgType) = j</b> ) is received.

## Felix Version 1.96 sp2

### Bugs Fixed

Message/Item	Description
Market Data – Incremental refresh	Using a unique value for <b>Tag 278 (MDEntryID)</b> for new market data entries where the original entry still exists is now compatible with all Phoenix server versions.

## Felix Version 1.96 sp1

### Bugs Fixed

Message/Item	Description
Market Data – Incremental refresh	<b>Tag 278 (MDEntryID)</b> is now unique for new market data entries where the original entry still exists.

## Felix Version 1.96

### Enhancements

Message/Item	Description
IRESS FIX Engine	<p>Various enhancements and bug fixes have been made to use the new functionality provided by FIX Administration front-end version 1.83. The FIX Felix version 1.83 Administration front-end new functionality includes:</p> <p>FIX Administration</p> <ul style="list-style-type: none"> <li>new column to show login status to IOS</li> <li>new level of permissioning to view connectivity only (applicable for IRESS FIX hub).</li> </ul> <p>FIX Logs</p> <ul style="list-style-type: none"> <li>ability to filter by a date range.</li> </ul> <p><b>Note:</b> - this new functionality requires a minimum IRESS FIX Engine version of Felix 1.96.</p>
Allocation and Allocation ACK	<p>The IRESS FIX Engine now sends an Allocation message with <b>tag 71 (AllocTransType) = 2</b> when the InstoStatus of the booking is set to 'Cancel' in IOS.</p> <p>Enhancements to Allocation ACK messages using <b>tag 87 (AllocStatus)</b> enable the BrokerStatus and InstoStatus to be changed in response to Cancel Allocation messages. This only applies to allocation messages from the IOS to the FIX Engine.</p>
Allocation	<p>A setting is now available to enable the IOS Client Order ID to be sent in <b>tag 37 (OrderID)</b>. This setting is disabled by default.</p>

### Bugs Fixed

Message/Item	Description
Allocation	<p><b>Tag 87 (AllocStatus)</b> is no longer added to outgoing Allocation messages.</p>
	<p>IOS allocation price and commission fields now correctly convert dollar values in incoming allocation message to cents in IOS.</p>
Execution Report	<p>Replacements for NZ At Market orders with <b>tag 59 (TimeInForce) = 3</b> or <b>4</b> will now report back the correct <b>tag 59</b> value.</p>

## Felix Version 1.95 sp15

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	In specific circumstances, removing multiple accounts while placing a large batch of orders can cause a FIX Engine to fail. This has now been fixed.

## Felix Version 1.95 sp14

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	When the "Send unsolicited order rejects" setting is enabled, order reject messages are now sent for unsolicited order amend or cancel requests if the existing order trades before the unsolicited amend or cancel request is applied.

## Felix Version 1.95 sp13

### Enhancements

Message/Item	Description
IRESS FIX Engine	If a FIX Engine running in client mode has a re-occurring issue with sending a login message during connection, the connection is now automatically reset, enabling the session to be established correctly.

## Felix Version 1.95 sp12

### Enhancements

Message/Item	Description
IRESS FIX Engine	Initiating a connection to the client when the FIX Engine is running in client mode has been improved.

## Felix Version 1.95 sp10

### Enhancements

Message/Item	Description
IRESS FIX Engine	Further enhancements for the watching issue addressed with FIX Engine version 1.95 sp9 are now available for FIX Engines connecting to IOS Insto version 1.65 sp3 or higher. To fully resolve the watching issue, minimum versions of FIX Engine 1.95 sp10 and IOS Insto version 1.65 sp3 are required.

## Felix Version 1.95 sp9

### Enhancements

Message/Item	Description
IRESS FIX Engine	When an ORH issue occurred, the FIX Engine could stop watching for order updates. This no longer occurs. <b>Note:</b> In some instances, the IOS may not receive notification that the FIX Engine has reconnected. This requires specific IOS server versions to fully resolve the issue.
	An internal monitor message is now generated to alert IRESS to network issues if the IOS does not respond to FIX messages.
	The FIX Engine can now be manually re-logged in to a nominated IOS server.

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	If an ORH (Order Routing Hub) connection issue occurs and requires the FIX Engine ORH connection to be refreshed, the recovery process now correctly reports new orders placed during the outage.

## Felix Version 1.95 sp7

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	In certain specific circumstances, the update processing for OrderIDs could cause slowness on the FIX Engine. This issue has now been resolved.
Market Data – Incremental Refresh	Trade updates ( <b>tag 269 (MDEntryType) = 2</b> ) now include <b>tag 271 (MDEntrySize)</b> .
Market Data Request	Requests to unsubscribe from market data requests are now processed if the ComplIDs are different.

## Felix Version 1.95 sp6

### Bugs Fixed

Message/Item	Description
New Order - Single	<b>Tag 126 (ExpireTime)</b> now supports the Coordinated Universal Time (UTC) format including milliseconds. The time format is expressed as YYYYMMDD-HH:MM:SS.sss.

## Felix Version 1.95 sp5

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	After an IOS outage, new orders are only accepted when FIX Engine processes are ready to watch for updates. Previously, a timing window could allow new orders to be accepted when the FIX Engine was not watching for updates. This could result in acknowledgements for those new orders not being sent back to the FIX client.

## Felix Version 1.95 sp4

### Enhancements

Message/Item	Description
IRESS FIX Engine	Sequence numbers in FIX Administration front-end commands are now only updated by the FIX Engine every 30 seconds.
Execution Report	<b>Tags 5039</b> and <b>5041</b> are no longer sent when the FIX Engine is using FIX protocol version 4.0.

### Bugs Fixed

Message/Item	Description
Execution Report	If an unsuccessful attempt is made to cancel an order at the same time that it fully trades, the FIX Engine no longer sends a Cancel Execution Report before the Fill Execution Report.
	When running in IOS Plus mode, <b>tag 6 (AvgPrice)</b> is now correct when fills are reported from the market.

## Felix Version 1.95 sp3

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	The scheduled cleanup job now successfully clears all ClOrdIDs to allow re-use. <b>Note:</b> Problems with clearing ClOrdIDs only occurred in versions 1.95 sp1 and 1.95 sp2.
Execution Report	Symbol conversion now sends the correct symbol for all unsolicited orders.

## Felix Version 1.95 sp2

### Enhancements

Message/Item	Description
Execution Reports	NZ market orders with <b>tag 40 (OrdType) = 1</b> now report back to the client with <b>tag 59 (TimeInForce)</b> at the same value as that of the received order.
IRESS FIX Engine	The order attributes for the NZ exchange have been updated for the NZ Trayport environment. FIX Engine version 1.95 sp2 is now the minimum version for any upgrades of existing FIX Engines or newly set up FIX Engines that trade in NZ orders
New Order - Single	The <b>Prices in dollars</b> FIX Engine setting no longer applies to <b>tag 202 (StrikePrice)</b> for index options.

### Bugs Fixed

Message/Item	Description
Execution Report	Reject Execution Reports now correctly send <b>tag 151 (LeavesQty) = 0</b> . <b>Tag 31 (LastPx)</b> and <b>tag 6 (AvgPx)</b> values are now sent in dollars for options orders when the FIX Engine <b>Prices in dollars</b> setting is turned on. Note: This bug only occurred when running in Market Order mode.
Order Cancel Reject	Order Cancel reject messages are now sent when using FIX protocol version 4.0.

## Felix Version 1.95 sp1

### Enhancements

Message/Item	Description
IRESS FIX Engine	The IRESS FIX Engine will now include case-sensitivity when checking if the value of <b>tag 11 (ClOrdID)</b> has previously been used.
Order Cancel Reject	Order Cancel Reject messages generated by an IOS operator or supervisor denying a request now send <b>tag 102 (CxlRejReason) =2</b> (Broker Option).

## Bugs Fixed

Message/Item	Description
IRESS FIX Engine	The IRESS FIX Engine now ensures the SQL database connection is available before allowing any socket connections.
Order Cancel/Replace Request	Order Cancel/Replace Request messages received when an order is in the Pending New state are now rejected.

## Felix Version 1.95

### Enhancements

Message/Item	Description
New Order - Single	The time portion of <b>tag 126 (ExpireTime)</b> , sent with Good Till Date orders ( <b>tag 59 (TimeInForce) = 6</b> ) is now inspected for NZ Market orders.
Execution Report	The Cancel Execution Report for NZ Market Fill and Kill orders ( <b>tag 59 (TimeInForce)=3</b> ) that partially trade and then cancel the remaining volume is now sent with <b>tag 126 (LeavesQty) = 0</b> . <b>Note:</b> This item appears only with the NZ Faster replacement Trayport system.

## Felix Version 1.94 sp2

### Bugs Fixed

Message/Item	Description
Execution Report	When an order is lost in recovery due to an error and then recovers back into the IOS later, the Restate Execution Report is no longer sent with <b>tag 39 (OrdStatus) = 4 (Cancelled)</b> . Previously <b>39=4</b> was sent, preventing the FIX client from amending or cancelling the order.
	<b>Tags 31 (LastPx)</b> and <b>6 (AvgPx)</b> are now sent in dollars for options when the <b>Prices in dollars</b> setting on the FIX engine is turned on.
	<b>Tag 55 (Symbol)</b> now correctly reports the security code for options market orders when a transfer in has occurred in the IOS, causing a Fill message.

## Felix Version 1.94 sp1

### Bugs Fixed

Message/Item	Description
New Order - Single / Execution Reports	<b>Tag 202 (Strike)</b> now uses the 'prices in dollars' setting on the FIX engine to determine if the strike price is sent in dollars or cents.

## Felix Version 1.94

### Enhancements

Message/Item	Description
IRESS FIX Engine	A scheduled job is now available to generate a message to the FIX Admin front-end if the client is not logged into the FIX Engine by a nominated time.
Indication of Interest	Outgoing Indication of Interest messages will now send the excluded single organisations as Block Firm organisations ( <b>tag 216=3</b> ). <b>Note:</b> This enhancement requires IOS server version 1.62.
New Order – Single/Order Cancel/Requests / Execution Reports	<b>Tags 201 (PutOrCall), 202 (Strike), 200 (MaturityMonthYear), and 205 (MaturityDay)</b> are now supported for options - for incoming New Orders, as well as Execution Reports. Clients are no longer required to provide the IRESS code when sending or reporting option orders through the IRESS FIX Engine.

### Bugs Fixed

Message/Item	Description
Resend Request	If a resend request is sent from both sides, the IRESS FIX Engine now processes the Resend Request separately rather than queuing the message.
Allocations	The processing of outgoing allocation messages has been enhanced to be more efficient.
New Order - Single	The processing of database entries when there is a large amount of activity in the FIX Engine and IOS has been enhanced.
Execution Report	If the FIX Engine is not sending Pending New messages, and the client attempts to delete an order that has not yet been acknowledged (that is, if the order is in the CREATING state in IOS), when the order goes to OK in IOS, a New Execution Report is now sent.
	If an order trades while it is in an unsolicited pending replace or pending cancel state (that is, if an attempt to delete the market order has been made through IOS, but the deletion has rolled to authorising), the Fill Execution Report is no longer sent with <b>Order Status (tag 39)=6</b> .
	In the rare circumstance when an amend request and a partial fill for an order occur at exactly the same time, the Pending Replace Execution Report now sends the correct value for <b>tag 38 (OrderQty)</b> .
	Pending Cancel/Replace Execution Reports are now sent when using FIX protocol version 4.0.

## Felix Version 1.93 sp4

### Bugs Fixed

Message/Item	Description
Execution Report	<b>Tag 111 (MaxFloor)</b> is no longer sent when using FIX protocol version 4.0 or 4.1.

## Felix Version 1.93 sp3

### Bugs Fixed

Message/Item	Description
Order Status Request	An Order Status Request on an order with a last message of Order Cancel Reject will now correctly send the last good Execution Report each time the request is made. In this scenario, if an Order Status Request is made, <b>tag 11 (CIOrdID)</b> will return the value of the last good Execution Report and <b>tag 41 (OrigCIOrdID)</b> will return the ID of the Order Status Request.

## Felix Version 1.93 sp2

### Bugs Fixed

Message/Item	Description
Execution Report	Cancel Execution Reports generated when an NZ order is amended to IOC or FOK with no opposing side now reference the original CIOrdID in <b>tag 11</b> rather than the CIOrdID value from the Order Cancel Request.

## Felix Version 1.93 sp1

### Enhancements

Message/Item	Description
IRESS FIX Engine	A new setting is available to prohibit Short Sell market orders ( <b>tag 54 (Side) =5</b> ) for the NZ exchange.  This setting is off by default.

## Felix Version 1.93

### Enhancements

Message/Item	Description
IRESS FIX Engine	Secondary order fields are now used on unsolicited updates to look up the correct FIX Engine order. This ensures that where the IOS goes to Cold DR, the market order in IOS is able to link correctly to the FIX Engine order.
	Orders received for an unknown exchange now reject with the correct reason instead of "Unknown TimeInForce received".
New Order – Single	At Best ASX orders are now supported when the client sends <b>OrdType (Tag 40) = P</b> [Pegged] and <b>Execlnst (Tag 18) = R</b> [primary market - buy at bid/sell at offer].
Execution Report	The "Restate orders on recovery" setting will now send a Restate Execution Report for any open client orders the FIX Engine is watching.
Indication of Interest	The <b>IOlid (tag 23)</b> is now stored for incoming IOIs in a pending state, to allow processing of an indication amend received immediately following the new indication message.

### Bugs Fixed

Message/Item	Description
IRESS FIX Engine	Amends and deletes are now processed correctly if the <b>CIOrdID (tag 11)</b> value is greater than 30 characters.
	When running in IOS Plus mode, CIOrdIDs now clear out of the database when the order is closed.
Allocations	The FIX Engine clean up will now only remove allocation records once the booking is removed from IOS. This prevents amends of old bookings being sent as new instead of replace allocation messages.
	Order details are now correctly sent on outgoing allocation messages.
Execution Report	Restate messages generated as a result of the "Restate orders on recovery" setting now send user fields set up in the SDO mapping table.
	Unsolicited market orders created as a result of a market update now correctly generate a New Execution Report instead of a Restate Execution Report.
	When the FIX Engine is connected to IOS Plus, extra Replace Execution Reports are no longer sent when trades occur.
Execution Report	When the FIX Engine is connecting to IOS Plus, the execution reports are now correctly generated if the messages are received out of order from IOS Plus.
	Correct values for <b>LastPx (tag 31)</b> and <b>AvgPrx (tag 6)</b> are now sent for SFE orders after a trade recovery occurs.
	NZ orders that are amended to <b>IOC (tag 59= 3)</b> or <b>FOK (tag 59= 4)</b> with no opposing side now send the Order Cancel Reject with the correct <b>Order Status (tag 39)</b> followed by a Cancel Execution Report.

Message/Item	Description
<b>Order Status Request</b>	An Order Status Request on an order with a last message of Order Cancel Reject now sends the Order Cancel Reject as the last good Execution Report rather than the Pending message.
<b>Trading Session Status</b>	Now stops watching when the FIX client disconnects.
	If the FIX Engine is unable to log into the Phoenix server overnight, it now retries for a period. If it is still unable to connect, the Trading Session Status Request from the client is rejected rather than failing silently.

## Future Development

The following items are proposed enhancements for the IRESS FIX Engine:

- ability to process list orders
- support for FIX protocol versions 4.3 and 4.4
  - FIX Administration: archiving of FIX Logs data.

**Please contact your IRESS Market Technology Account Executive to discuss proposed enhancements and/or any additional enhancements you require.**