

SpiderRock V7 FIX Reference

Order Entry Specification

May 12, 2022

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Introduction

User Support

Production support is available at 312-256-9602.

Please email questions or comments regarding this document to: cs@spiderrock.net

Hours of Operation

The SpiderRock Database is available from Sunday 12:00PM EST through Saturday 10:00AM EST year-round with normal software maintenance occurring on Saturday, during system shutdown.

About This Document

This document describes the application level FIX messages used to programmatically submit and manage orders for equities, equity options, futures, and futures options with SpiderRock. This includes single-leg and multi-leg orders; both standard order types and the more sophisticated order types offered by SpiderRock.

This document is intended to be used in conjunction with the SpiderRock FIX Session Guide which describes session level message handling and other SpiderRock FIX conventions in more detail.

In addition to this document, please refer to the SpiderRock V7 Execution Concept Guide. It provides an overview of the algo order types offered by SpiderRock.

Supported Order Types

- ❑ DMA style orders (market or limit orders with a simple limit price and a designated exchange)- These orders will be routed to the designated exchange.
- ❑ Smart/Sweep style orders (market or limit orders, with a simple limit price, and no designated exchange)- These orders will be routed to one or more exchanges at SpiderRock's discretion.
- ❑ Complex algo/parent orders (orders with more complex algo behavior)- These orders can be both active maker and active taker style orders with more complex price and size limits. They can both provide and interact with liquidity on any public exchange.
- ❑ MultiLeg/Spread orders (orders with more than one leg)- MultiLeg/Spread orders can have DMA, Smart/Sweep, or Complex Algo style order handling. They can also, if requested, work legs individually across all relevant exchanges.
- ❑ Opening/Closing auctions- Orders designated for participation in either exchange opening or closing auctions.
- ❑ Staged/Wait Start order management (orders that queue in SpiderRock systems until released by the client) are available for most order types. These order types can be used to integrate client risk/approval systems with orders generated by trading groups. Alternatively, they can be used to integrate trader approval of orders generated by automated strategies. Note that

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orders can be both staged and/or released in any combination of SpiderRock GUI tools, the SpiderRock SRSE API, and FIX messaging.

Application Messages

NewOrderSingle (Client to SpiderRock)

NewOrderSingle<D> messages are used to submit orders for single securities. Both the standard order types and the more complex order types offered by SpiderRock are communicated using this message.

The NewOrderSingle<D> fields listed in the following table are used in common by all SpiderRock single security order types. Additional fields are used by different order types to communicate their unique features. These fields are described in subsequent sections.

In addition to standard FIX fields, SpiderRock uses its own custom FIX fields for parameters in NewOrderSingle<D> messages. (The FIX specification allows for the definition of custom fields with a tag number in the 5000-9999 range). Please refer to the SpiderRock V7 Custom Tags Reference for a complete list of the custom SpiderRock FIX fields.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------------------|----------|--------|--|
| | <i>Standard Header</i> | <i>Y</i> | | <i>MsgType = D</i> |
| 11 | ClOrdId | Y | string | Client order ID (24 character max) |
| 1 | Account | Y | string | SR account acronym |
| 100 | ExDestination | N | string | SR Destination Code (see appendix) <input type="checkbox"/> Required for DMA style orders |
| 40 | OrdType | N | char | 1 = Market 2 = Limit 5 = Market on Close B = Limit on Close <input type="checkbox"/> Required for DMA and Smart/Sweep style orders. Not required for more complex order types. If necessary, use Market as the order type when submitting orders with more complex behavior. |
| 44 | Price | N | float | Required for limit order types |
| 59 | TimeInForce | N | string | 0 = Day 2 = Opening 3 = Immediate or Cancel (IOC) 6 = Good Till Date/Time (or Duration) 7 = Closing |

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| | | | | |
|-----|-------------------|---|--------|---|
| 207 | SecurityExchange | N | string | <p>Market used to identify a security's issuing authority (see Appendix A for those accepted by SpiderRock)</p> <ul style="list-style-type: none"> For Futures products: the issuing authority must be supplied in SecurityExchange<207> For Equities and Equity Options (SecurityType<167> = CS, OPT, <blank>): in which the issuing authority SecurityExchange<207> is not explicitly supplied, NMS is assumed. |
| 461 | CFICode | N | string | <p>ES = Equity Common Shares [CS] F = Future [FUT] OC = Option - Call [OPT] OP = Option - Put [OPT]</p> |
| 201 | PutOrCall | N | int | <p>Alternative to CFICode<461> 0 = Put 1 = Call</p> |
| 167 | SecurityType | N | string | <p>Alternative to CFICode<461></p> <ul style="list-style-type: none"> If used, specify for Futures and Options If not specified, Equity assumed <p>FUT – Future/Future Options OPT – Equity Option CS or <empty> - Equity</p> |
| 55 | Symbol | Y | string | <p>Exchange symbol</p> <ul style="list-style-type: none"> May incorporate symbol suffix (e.g. VIA.A) For OPRA options, SpiderRock accepts an OSI code in this field. For standardized futures products, maturity information can be included in this field, (e.g. GCZ22 [for the Dec-22 Comex Gold Future]). |
| 65 | SymbolSfx | N | string | Symbol suffix |
| 22 | IDSource | N | string | 8 = Exchange Symbol is accepted when used in conjunction with SecurityID<48> to communicate the Exchange Symbol. |
| 48 | SecurityID | N | string | Exchange symbol, when IDSource = 8 and Symbol<55> is blank. |
| 541 | MaturityDate | N | string | For Futures and Options YYYYMMDD |
| 200 | MaturityMonthYear | N | string | Alternative to MaturityDate<541> YYYYMM |
| 205 | MaturityDay | N | int | Alternative to MaturityDate<541> 1-31 |
| 202 | StrikePrice | N | float | Option strike price |

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| | | | | |
|-----|-------------------------|---|---------|--|
| 54 | Side | Y | char | 1 = Buy 2 = Sell 5 = Sell short 6 = Sell short exempt Y = Sell auto (SR determines whether child orders should be selling long or short by looking up account/aggregate group position when child orders are created). |
| 77 | OpenClose | N | char | For Options O = Open C = Close A = Auto (SR determines whether child orders should be marked open or closed by looking up account/aggregate group position when child orders are created). |
| 204 | CustomerOrFirm | N | char | 0 = Customer 1 = Firm 2 = Broker / Dealer 4 = Market Maker 5 = Non-Member Market Maker 8 = Customer Professional (Will default to SR account configuration if not specified) |
| 528 | OrderCapacity | N | char | A = Agency G = Prop I = Individual P = Principal R = Riskless W = AgentOtherMember (Will default to SR account configuration if not specified) |
| 60 | TransactTime | Y | utcDttm | Time this order request was initiated/released <input type="checkbox"/> YYYYMMDD-HH:MM:SS (Note: this order must arrive at SR within 15 seconds of TransactTime to be considered a valid order). |
| 38 | OrderQty | Y | int | Executable quantity |
| | <i>Standard Trailer</i> | Y | | |

Example – DMA

DMA orders are used to send a single order to a specific exchange or destination. This order type allows the client to control where the order is traded. Note that DMA orders may interact with dark liquidity in the SpiderRock platform if this is desired.

| Tag | Field Name | Req'd | Type | Comments |
|--|------------------------|-------|------|--------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |
| Basic NewOrderSingle Fields (See NewOrderSingle above) | | | | |

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| | | | | |
|-----|-------------------------|---|--------|--|
| 100 | ExDestination | Y | string | SR Destination Code (see appendix) <input type="checkbox"/> Required for DMA style orders |
| | <i>Standard Trailer</i> | Y | | |

Example - Smart/Sweep

Smart/Sweep orders are used to send an order without specifying a destination. SpiderRock will determine the optimal destination(s) for the order and will automatically sweep multiple destinations to maximize liquidity capture. This order type can optionally post any unfilled balance on an exchange.

| Tag | Field Name | Req'd | Type | Comments |
|--|-------------------------|-------|------|--------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |
| Basic NewOrderSingle Fields (See NewOrderSingle above) | | | | |
| | <i>Standard Trailer</i> | Y | | |

Example - Staged/WaitStart

The SRStartType<5090> tag is used to send staged/wait orders to SpiderRock. These orders will be sent to the exchange as market orders once the client commands their release. Note that orders can be released in multiple ways: via SpiderRock GUI tools, via the SpiderRock SRSE/SQL API, and via a Listexecute<L> fix message.

Staged orders will be acknowledged immediately; fills will only be reported after the order has been released.

| Tag | Field Name | Req'd | Type | Comments |
|---|-------------------------|-------|------|-------------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |
| Any Combination of Basic or SpiderRock Specific NewOrderSingle Fields | | | | |
| 5090 | SRStartType | Y | int | 2 = Staged (wait start) |
| | <i>Standard Trailer</i> | Y | | |

Example - MarketOnOpen/MarketOnClose

MarketOnOpen/MarketOnClose orders are used when participating in opening and closing exchange auctions.

Note: Either Fix4.2 or Fix4.4 style OrdType/TimeInForce tagging is allowed.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------|-------|------|----------|
|-----|------------|-------|------|----------|

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| | | | | |
|--|-------------------------|---|------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |
| Basic NewOrderSingle Fields (See NewOrderSingle above) | | | | |
| 59 | TimeInForce | Y | char | 2 = At the Opening 7 = At the Close |
| | <i>Standard Trailer</i> | Y | | |

Example - Complex Algo/Parent

Complex Algo/Parent orders express intent to interact with the market in a variety of ways. These parent orders can, and frequently do, result in multiple child orders being generated and routed to the exchange.

| Tag | Field Name | Req'd | Type | Comments |
|--|------------------------|-------|--------|---|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |
| Basic NewOrderSingle Fields (See NewOrderSingle above) | | | | |
| 5036 | SRUsername | N | string | Client defined username <input type="checkbox"/> Used for customer service and futures compliance <input type="checkbox"/> If necessary, a default may be assigned to the FIX session. (24 character max) |
| 5055 | SRProgressExposeTime | N | int | Default = 0 |
| 5094 | SROrderHandling | Y | int | Primary order handling algorithm 1 = ActiveTaker |

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|------|-------------------|---|---------|--|
| | | | | 2 = PostOnly 3 = DMA 4 = MktOnOpn 5 = MktOnCls 6 = Facilitate 7 = Matrix 11 = CrossResponse 12 = AuctionResponse |
| 5096 | SRBalanceHandling | N | int | 0 = None (non-marketable balance will not be posted) 1 = PostWith 2 = PostTurn 3 = PostImprove 4 = PostLimit 5 = PostLmtW 6 = MaxIntern (only when SROrderHandling=Matrix) 7 = PostWthF 9 = PostFlash 10 = PostFlashW 12 = PostFlashI |
| 5090 | SRStartType | N | int | 0 = Immediate 1 = WaitTrigger (wait for RiskGroup/Sweep trigger) 2 = Staged (wait for order to be modified/released) |
| 5084 | SRTIMEInForce | N | string | <ul style="list-style-type: none"> <input type="checkbox"/> Day = Order remains working until the end of the day's primary trading session. <input type="checkbox"/> EXT = Extended Day - Order remains working through the day's intended trading session until the next top of day rotation. <input type="checkbox"/> WK = Week - Order remains working for the remainder of the week's normal trading sessions. <input type="checkbox"/> EWK = Extended Week - Order remains working for the week's remaining extended trading sessions until the next Friday/EndOfWeek rotation. <input type="checkbox"/> IOC = Immediate or Cancel - Order expires after one attempt at execution OR after one second. <input type="checkbox"/> GTD = Good Till Duration - Order remains working through the day's extended trading session until the next top of day rotation OR when SRGoodTillDttm time is reached OR after working for SROrderDuration seconds. |
| 5086 | SROrderDuration | N | int | Order with SrTimeInForce = GTD expires after working for this number of seconds. 0/missing = ignore. |
| 5088 | SRGoodTillDttm | N | utcDttm | Order with SrTimeInForce = GTD expires at this time. |
| 5028 | SRAltRouteCode | N | string | Alternate child order routing code [assigned by SR] |
| 5034 | SRStrategy | N | string | Text field; visible on SR Order Manager |
| 5082 | SRExchanges | N | string | Comma separated exchange list; default = all available exchanges |

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|------|--------------------|---|------|---|
| 5046 | SRMaxExposureSize | N | int | Maximum simultaneous public exposure size across all exchanges |
| 5048 | SRNumMakeExchanges | N | int | Number of public exposure exchanges |
| 5050 | SRPublicSize | N | char | 0 = None 1 = Randomize 2 = MktSize 3 = FullSize 4 = MktSizeA 5 = MktSizeB 6 = MktSizeC 7 = FullSizeR |
| 5052 | SRCanCxlOverlap | N | char | Y = Yes |
| 5080 | SRMaxChildOrders | N | int | Upper bound for the number of child orders generated for this parent order |
| 5054 | SRProgressRule | N | int | 0 = Immediate (default) 1 = Twap 2 = Vwap (not available for options) 3 = TwapReset 4 = VwapReset (not available for options) 5 = FastReset 6 = SlowReset 7 = TwapAlpha 8 = VwapAlpha (not available for options) 11 = SpdrPulse |
| 5056 | SRTwapSliceCnt | N | int | Number of TWAP slices (default = 1) |
| 5104 | SRTakeReachRule | N | int | 0 = Immediate 1 = Delayed 2 = Passive |
| 5098 | SROrderLimitType | N | int | 0 = Market 1 = MarketArrival 2 = Prc 3 = PrcDe 4 = PrcDeX 5 = PrcDeT 6 = PrcDeP 7 = PrcDeXT 8 = PrcDeXP 9 = Vol 10 = VolX 11 = VolF 12 = VolFX 13 = VolPrc 14 = RelMid 15 = RelJoin 16 = RelCross 17 = SmrtFast 18 = SmrtNorm 19 = RelTurn |

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|--|-------------------------|----------|--------|--|
| 5106 | SROrderPrcLimit | N | float | Applies if LimitType = Prc[] |
| 5126 | SROrderPrcOffset | N | float | Default=0 |
| 5132 | SRTakeAlphaFactor | N | float | |
| 5134 | SRMakeAlphaFactor | N | float | |
| 5136 | SRTakeProbability | N | float | |
| 5138 | SRMakeProbability | N | float | |
| 5253 | SRMaxAccDayDDeltaLn | N | float | max acct day \$delta long (positive number; -1=no limit); risk limit = max limits - current net counter |
| 5254 | SRMaxAccDayDDeltaSh | N | float | max acct day \$delta short (positive number; -1=no limit); risk limit = max limits + current net counter |
| 5259 | SRMaxSymDayDDeltaLn | N | float | max acct+symbol day \$delta long (positive number; -1=no limit); risk limit = max limits - current net counter |
| 5260 | SRMaxSymDayDDeltaSh | N | float | max acct+symbol day \$delta short (positive number; -1=no limit); risk limit = max limits + current net counter |
| 5058 | SRVwapParticipation | N | float | Target vwap participation rate (target % of trade activity) |
| 5290 | SRUserData1 | N | string | User defined field (max 255 chars) <input type="checkbox"/> Can be returned on exec reports <input type="checkbox"/> Forward to drop lines or forwarded to child orders <input type="checkbox"/> Please advise SpiderRock support staff of intended behavior. |
| 5291 | SRUserData2 | N | string | User defined field (max 255 chars) <input type="checkbox"/> Can be returned on exec reports <input type="checkbox"/> Forward to drop lines or forwarded to child orders <input type="checkbox"/> Please advise SpiderRock support staff of intended behavior. |
| SR Option Specific Fields (See below) | | | | |
| | <i>Standard Trailer</i> | <i>Y</i> | | |

Complex Algo/Parent – Option Specific Fields

The following fields can be included in Algo/Parent orders when SecurityType<167> = Option.

If autohedging is enabled, then any resulting autohedge fills will be reported using the SRAutoHedgeClOrdID. Note that since autohedge orders and fills are generated in response to option fills, some accommodations must be made in the resulting autohedge underlier execution reports.

- OrdStatus<39> - Will be reported as PartiallyFilled until the option order has been fully terminated and all corresponding underlying orders have been resolved, after which, it will be reported as Filled.
- ExecType<150> - Will always be reported as PartialFill, Fill or DoneForDay

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- Side<54> - Will contain the autohedge order side (depends on option side and callput flag)
- CumQty<39> - Will contain the cumulative autohedge quantity filled so far
- AvgPx<6> - Will contain the average autohedge price so far
- OrderQty<38> - Will always be greater than or equal to CumQty<39> (can increase or decrease)
- LeavesQty<151> - Will be zero when ExecType = Fill or DoneForDay. Will be the balance of the current working autohedge underlier child order when execType = PartialFill. Note: LeavesQty = 0 does NOT indicate that the autohedge order is terminated.

If an autohedge execution occurs, it will be reported immediately with OrdStatus<39> = PartiallyFilled. If the option parent order terminates (Filled, User Canceled, Expired, Broker Canceled), it will not be reported as closed until all corresponding autohedge child orders have been Canceled, all pending autohedge executions have been reported, and the autohedge OrdStatus<39> has been reported as Filled (if any autohedge fills have occurred).

| Tag | Field Name | Req'd | Type | Comments |
|------|--------------------|-------|--------|--|
| 5170 | SRPositionType | N | int | Primary position type (single leg orders) |
| 5060 | SRAuctionResponder | N | string | If set, parent order can be an auction responder |
| 5108 | SROrderRefUPrc | N | float | The stock reference price, a contribution to the order premium. Default: 0. |
| 5110 | SROrderRefDelta | N | float | Default=option.delta |
| 5112 | SROrderRefGamma | N | float | Default=option.gamma |
| 5192 | SROrderRefRMetric1 | N | float | User supplied custom risk metric #1 |
| 5194 | SROrderRefRMetric2 | N | float | User supplied RMetric2 value (used in RiskGroupID risk controls) |
| 5196 | SROrderRefRMetric3 | N | float | User supplied RMetric3 value (used in RiskGroupID risk controls) |
| 5198 | SROrderRefRMetric4 | N | float | User supplied RMetric4 value (used in RiskGroupID risk controls) |
| 5116 | SROrderVolLimit | N | float | Order volatility limit <input type="checkbox"/> Valid range: [0.005, 9.000]. <input type="checkbox"/> Required if `orderLimitType` is Vol, VolX or VolPrc <input type="checkbox"/> Ignored if `orderLimitType` is Market <input type="checkbox"/> Otherwise must be set to 0 |
| 5118 | SRRateOverride | N | float | zero = ignore; > zero = override |
| 5120 | SRSDivOverride | N | float | Default: 0 |
| 5122 | SRDDivOverride | N | string | Discrete dividend string override <input type="checkbox"/> ([years:amount,years:amount,years:amount ...]) |

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|------|-----------------------|---|-------|---|
| 5124 | SROverrideCode | N | char | SDiv/DDiv override rule (applies if LimitType = Vol) S = SDivOnly D = DDivOnly B = Both |
| 5228 | SRMakeSurfWidthOffset | N | float | Default=0 |
| 5229 | SRTakeSurfWidthOffset | N | float | Default=0 |
| 5140 | SRTakeSurfPrcOffset | N | float | Default=0 |
| 5142 | SRTakeSurfVolOffset | N | float | Default=0 |
| 5144 | SRMakeSurfPrcOffset | N | float | Default=0 |
| 5146 | SRMakeSurfVolOffset | N | float | Default=0 |
| 5072 | SRCxlUPrcRange | N | char | Cancel spdr order if/when outside stock price range |
| 5074 | SRMinUBid | N | float | Any non-hold status will revert to markup if stkNbboMid is outside midStockPx,maxUAsk range. |
| 5076 | SRMaxUAsk | N | float | See description for minUBid |
| 5078 | SRMinOptionPx | N | float | [Optional] option price floor for tied to stock orders |
| 5152 | SRAutoHedge | N | char | Autohedge type from option order (if generated as an Autohedge order) N = NoHedge F = AutoCrx S = AutoTrn M = AutoMid A = SpdrAuto 1 = Spdr10S 3 = Spdr30S 9 = Spdr90S 5 = Spdr5M H = Spdr30M T = Static |
| 5172 | SRShortSaleFlag | N | int | 1 = Long 2 = Short 3 = Exempt 4 = Auto 5 = NA |
| 5251 | SRMaxAccDayWtVegaLn | N | float | max acct day wvega (time weighted) long (positive number; -1=no limit); risk limit = max limits - current net counter |
| 5252 | SRMaxAccDayWtVegaSh | N | float | max acct day wvega (time weighted) short (positive number; -1=no limit); risk limit = max limits + current net counter |
| 5255 | SRMaxExpDayWtVegaLn | N | float | max acct+expiration day wvega (time weighted) long (positive number; -1=no limit); risk limit = max limits - current net counter |
| 5256 | SRMaxExpDayWtVegaSh | N | float | max acct+expiration day wvega (time weighted) short (positive number; -1=no limit); risk limit = max limits + current net counter |

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|------|---------------------|---|-------|---|
| 5257 | SRMaxSymDayWtVegaLn | N | float | max acct+symbol day vega long (positive number; -1=no limit); risk limit = max limits - current net counter |
| 5258 | SRMaxSymDayWtVegaSh | N | float | max acct+symbol day \$delta short (positive number; -1=no limit); risk limit = max limits + current net counter |

OrderCancelReplace (Client to SpiderRock)

The OrderCancelReplace<G> request is used to change the parameters of an existing single security order.

Do not use this message to cancel the remaining quantity of an outstanding order. Use the OrderCancelRequest<F> message for this purpose.

An ExecutionReport<8> with ExecType<150>=Pending Replace will be sent unless the OrderCancelReplace<G> can immediately be accepted (ExecutionReport<8> with ExecType<150>=Replaced) or rejected (OrderCancelReject<9> message).

An OrderCancelReplace<G> request will only be accepted if the associated child order(s) can successfully be pulled back. Requests that cannot be processed will be rejected with a CancelReject<3> message.

Only a limited number of fields can be changed via the OrderCancelReplace<G> message. All other instructions will be carried forward from the previous order. The fields which can be changed via this message are:

- ☐ OrderQty<38>
- ☐ TimeInForce<59>

It can be used to re-open a filled order by increasing OrderQty<38>.

| Tag | Field Name | Req'd | Type | Comments |
|---|-------------------------|-------|--------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = G</i> |
| 11 | ClOrdId | Y | string | Client order ID of the cancel request (24 character max) |
| 41 | OrigClOrdID | Y | string | ClOrdID<11> of the previous order (NOT the initial order of the day) when canceling an order. (24 character max) |
| Modifiable NewOrderSingle Fields (See list above) | | | | |
| | <i>Standard Trailer</i> | Y | | |

NewOrderMultileg (Client to SpiderRock)

A NewOrderMultileg<AB> message is used to submit an order for up to 6 option legs and one equity leg as a package. Both standard multi-leg order types and the more complex ones offered by SpiderRock are communicated using this message.

The NewOrderMultileg<AB> fields listed in the following table are used in common by all SpiderRock multileg orders. Additional fields are used by different order types to communicate their unique features. These fields are described in subsequent sections.

In addition to standard FIX fields, SpiderRock uses its own custom FIX fields as NewOrderMultileg<AB> parameters. The FIX specification allows for the definition of custom fields (tags in range 5000-9999). See the SpiderRock V7 Custom Tags Reference for a complete list of the custom SpiderRock FIX fields.

| Tag | Field Name | Req'd | Type | Comments |
|---------------------------------|------------------------|-------|---------|---|
| | <i>Standard Header</i> | Y | | <i>MsgType = AB</i> |
| 11 | ClOrdId | Y | string | Client order ID (24 character max) |
| 1 | Account | Y | string | SR account acronym |
| 38 | OrderQty | Y | int | Executable quantity |
| 54 | Side | N | char | 1 = Buy is assumed for the spread. Use LegSide. |
| 100 | ExDestination | N | string | SR Destination Code (see appendix) <input type="checkbox"/> Required for DMA style orders |
| 40 | OrdType | N | char | 1 = Market 2 = Limit <input type="checkbox"/> Required for DMA and Smart/Sweep style orders |
| 44 | Price | N | float | Required for limit order types |
| 59 | TimeInForce | N | string | 0 = Day 3 = Immediate or Cancel (IOC) |
| 60 | TransactTime | Y | utcDttm | Time this order request was initiated/released. <input type="checkbox"/> Note: This order must arrive at SR within 15 seconds of TransactTime to be considered a valid order. |
| SR Order Parameters (See below) | | | | |
| 555 | NoLegs | Y | int | Number of legs |
| =654 | LegRefId | Y | string | Used to identify a specific leg |
| =616 | LegSecurityExchange | N | string | Market used to identify a security's issuing authority <input type="checkbox"/> See Appendix A for those accepted by SpiderRock. <input type="checkbox"/> For Futures products: the issuing authority must be supplied in SecurityExchange<207>. <input type="checkbox"/> For Equities and Equity Options (SecurityType<167> = CS, OPT, <blank>): in which the issuing authority SecurityExchange<207> is not explicitly supplied, NMS is assumed. |

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|------|-------------------------|---|--------|---|
| =608 | LegCFIcode | N | string | ES = Equity Common Shares [CS] F = Future [FUT] OC = Option - Call [OPT] OP = Option - Put [OPT] |
| =609 | LegSecurityType | N | string | Alternative to LegCFIcode<608> for Equities and Futures only. <input type="checkbox"/> Must be specified for Futures and Options <input type="checkbox"/> If not specified, Equity assumed FUT – Future/Future Options OPT – Equity Option CS or <empty> - Equity |
| =600 | LegSymbol | Y | string | Leg Exchange symbol <input type="checkbox"/> May incorporate symbol suffix, e.g. VIA.A <input type="checkbox"/> For OPRA options, SpiderRock accepts an OSI code in this field. <input type="checkbox"/> For standardized futures products, maturity information can be included in this field, (e.g. GCZ22 [for the Dec-22 Comex Gold Future]). |
| =601 | LegSymbolSfx | N | string | Leg Symbol Suffix |
| =611 | LegMaturityDate | N | string | For Futures and Options YYYYMMDD |
| =612 | LegStrikePrice | N | float | Option strike price |
| =624 | LegSide | Y | char | 1 = Buy 2 = Sell 5 = Sell short 6 = Sell short exempt Y = Sell auto (SR determines whether child orders should be selling long or short by looking up account/aggregate group position when child orders are created). |
| =623 | LegRatioQty | Y | int | The ratio of quantity for this individual leg relative to the entire multileg security |
| =564 | LegPositionEffect | N | char | For Options O = Open C = Close A = Auto (SR determines whether child orders should be marked open or closed by looking up account/aggregate group position when child orders are created). |
| | <i>Standard Trailer</i> | Y | | |

Example - DMA

DMA orders are used to send a multi-leg order to a specified exchange or destination. This order type is appropriate when the client wishes to control where the order is traded. Note that DMA orders may interact with dark liquidity in the SpiderRock platform if configured to do so.

| Tag | Field Name | Req'd | Type | Comments |
|--|-------------------------|-------|--------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = AB</i> |
| Basic NewOrderMultileg Fields (See NewOrderMultileg above) | | | | |
| 100 | ExDestination | Y | string | SR Destination Code (see appendix) <input type="checkbox"/> Required for DMA style orders |
| | <i>Standard Trailer</i> | Y | | |

Example - Smart/Sweep

Smart/Sweep orders are used to send an order without specifying a destination. SpiderRock will determine the optimal destination(s) for the order and will automatically sweep multiple destinations to maximize liquidity capture. This order type can optionally post any unfilled balance on an exchange.

| Tag | Field Name | Req'd | Type | Comments |
|--|-------------------------|-------|------|---------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = AB</i> |
| Basic NewOrderMultileg Fields (See NewOrderMultileg above) | | | | |
| | <i>Standard Trailer</i> | Y | | |

Example - Staged/WaitStart

The SRStartType<5090> tag is used to send staged/wait orders to SpiderRock. These orders will be sent to exchange as market orders once the client commands their release. Note that orders can be released in multiple ways: via SpiderRock GUI tools, via the SpiderRock SRSE/SQL API, and via a Listexecute<L> fix message.

Staged orders will be acknowledged immediately; fills will only be reported after the order has been released.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------|-------|------|----------|
|-----|------------|-------|------|----------|

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|---|-------------------------|---|-----|---------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = AB</i> |
| Any Combination of Basic or Complex NewOrderMultiLeg Fields | | | | |
| 5090 | SRStartType | Y | int | 2 = Staged |
| | <i>Standard Trailer</i> | Y | | |

Example - Complex Algo/Parent

Complex Algo/Parent orders express intent to interact with the market in a variety of ways. These parent orders can, and frequently do, result in multiple child orders being generated and routed to the exchange.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------------------|-------|------|--------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = D</i> |

Order Entry Specification – SpiderRock FIX Gateway Reference

| Basic NewOrderMultileg Fields (See NewOrderMultileg above) | | | | |
|--|----------------------|---|---------|--|
| 5036 | SRUsername | N | string | Client defined username. <input type="checkbox"/> Used for customer service and futures compliance <input type="checkbox"/> If necessary, a default may be assigned to the FIX session (24 character max). |
| 5055 | SRProgressExposeTime | N | int | Default = 0 |
| 5094 | SROrderHandling | Y | int | Primary order handling algorithm 8 = Legger 9 = Seeker 10 = SeekerLegger 20 = CobMaker |
| 5096 | SRBalanceHandling | N | int | 0 = None (non-marketable balance will not be posted) 4 = PostLimit |
| 5090 | SRStartType | N | int | 0 = Immediate 1 = WaitTrigger (wait for RiskGroup/Sweep trigger) 2 = Staged (wait for order to be modified/released) |
| 5084 | SRTIMEinForce | | string | <input type="checkbox"/> Day = Day – Order remains working until the end of the day's primary trading session. <input type="checkbox"/> EXT = Extended Day - Order remains working through the day's extended trading session until the next top of day rotation. <input type="checkbox"/> WK = Week - Order remains working for the remainder of the week's normal trading sessions. <input type="checkbox"/> EWK = Extended Week - Order remains working for the week's remaining extended trading sessions until the next Friday/EndOfWeek rotation. <input type="checkbox"/> IOC = Immediate or Cancel – Order expires after one attempt at execution OR after one second. <input type="checkbox"/> GTD = Good Till Duration – Order remains working through the day's extended trading session until the next top of day rotation OR when SRGoodTillDttm time is reached OR after working for SROrderDuration seconds. |
| 5086 | SROrderDuration | | int | Order with SrTimeInForce = GTD expires after working for this number of seconds 0/missing = ignore |
| 5088 | SRGoodTillDttm | | utcDttm | Order with SrTimeInForce = GTD expires at this time working for this number of seconds |
| 5028 | SRAltRouteCode | | string | Alternate child order routing code [assigned by SR] |
| 5034 | SRStrategy | | string | Text field; visible on SR Order Manager |
| 5082 | SRExchanges | | string | Comma separated exchange list; default = all available exchanges |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|------|--------------------|---|--------|--|
| 5046 | SRMaxExposureSize | | int | Maximum simultaneous public exposure size across all exchanges |
| 5048 | SRNumMakeExchanges | | int | Number of public exposure exchanges |
| 5050 | SRPublicSize | N | char | 0 = None 1 = Randomize 2 = MktSize 3 = FullSize 4 = MktSizeA 5 = MktSizeB 6 = MktSizeC 7 = FullSizeR |
| 5080 | SRMaxChildOrders | | int | Upper bound for the number of child orders generated for this parent order |
| 5054 | SRProgressRule | | int | 0 = Immediate (default) 1 = Twap 3 = TwapReset 5 = FastReset 6 = SlowReset 7 = TwapAlpha 11 = SpdrPulse |
| 5056 | SRTwapSliceCnt | | int | Number of TWAP slices (default = 1) |
| 5104 | SRTakeReachRule | | int | 0 = Immediate 1 = Delayed 2 = Passive |
| 5098 | SROrderLimitType | | string | 0 = Market 1 = MarketArrival 2 = Prc 3 = PrcDe 4 = PrcDeX 6 = PrcDeP 8 = PrcDeXP 14 = RelMid 15 = RelJoin 16 = RelCross |
| 5100 | SRTakeLimitClass | | char | Simple=0 Surface=1 Probability=2 SurfProb=3 |
| 5102 | SRMakeLimitClass | | char | Simple=0 Surface=1 Probability=2 SurfProb=3 |
| 5106 | SROrderPrcLimit | | float | Applies if LimitType = Prc[] |
| 5109 | SROrderRefUAsk | | price | |
| 5110 | SROrderRefDelta | | float | Default=option.delta |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|------|-------------------------|---|--------|--|
| 5112 | SROrderRefGamma | | float | Default=option.gamma |
| 5114 | SROrderRefTheta | | float | |
| 5116 | SROrderVolLimit | | float | Order volatility limit <input type="checkbox"/> Valid range: [0.005, 9.000]. <input type="checkbox"/> Required if `orderLimitType` is Vol, VolX or VolPrc <input type="checkbox"/> Ignored if `orderLimitType` is Market <input type="checkbox"/> Otherwise must be set to 0 |
| 5126 | SROrderPrcOffset | | float | Default=0 |
| 5128 | SRTakeAlphaType | | char | 1 = Static 2 = Hawk 3 = Eagle 4 = Falcon 5 = Relative |
| 5130 | SRMakeAlphaType | | char | 1 = Static 2 = Hawk 3 = Eagle 4 = Falcon 5 = Relative |
| 5132 | SRTakeAlphaFactor | | float | |
| 5134 | SRMakeAlphaFactor | | float | |
| 5136 | SRTakeProbability | | float | |
| 5138 | SRMakeProbability | | float | |
| 5202 | SRLeadSide | | char | Legger Only 1 = BUY 2 = SELL |
| 5204 | SRMaxCompletionSlippage | | float | Legger Only |
| 5206 | SROrderRefPremium | | float | Reference premium (mleg orders only) |
| 5290 | SRUserData1 | N | string | User defined field (max 255 chars) <input type="checkbox"/> Can be returned on exec reports; forward to drop lines or forwarded to child orders <input type="checkbox"/> Please advise SpiderRock support staff of intended behavior. |
| 5291 | SRUserData2 | N | string | User defined field (max 255 chars) <input type="checkbox"/> Can be returned on exec reports; forward to drop lines or forwarded to child orders <input type="checkbox"/> Please advise SpiderRock support staff of intended behavior. |
| | <i>Standard Trailer</i> | Y | | |

Example - Logger

Logger orders allow SpiderRock to determine optimal destination(s) for the order. SpiderRock will automatically sweep multiple destinations to maximize the order's liquidity capturer. Any unfilled balance can optionally be posted to exchange.

| Tag | Field Name | Req'd | Type | Comments |
|--|-------------------------|-------|-------|---|
| | <i>Standard Header</i> | Y | | <i>MsgType = AB</i> |
| Basic NewOrderMultileg Fields (See NewOrderMultileg above) | | | | |
| 5094 | SROrderHandling | Y | int | Primary order handling algorithm 8 = Logger |
| 5096 | SRBalanceHandling | N | int | 0 = None (non-marketable balance will not be posted) 4 = PostLimit |
| 5202 | SRLeadSide | | char | Logger Only 1 = BUY 2 = SELL |
| 5204 | SRMaxCompletionSlippage | | float | Logger Only |
| | <i>Standard Trailer</i> | Y | | |

MultilegCancelReplace (Client to SpiderRock)

The MultilegCancelReplace<AD> is used to change the parameters of an existing multi-leg order.

Do not use this message to cancel the remaining quantity of an outstanding order. Use the OrderCancelRequest<F> message for this purpose.

An ExecutionReport<8> with ExecType<150>=Pending Replace will be sent unless the OrderCancelReplace<G> can immediately be accepted (ExecutionReport<8> with ExecType<150>=Replaced) or rejected (OrderCancelReject<9> message).

An OrderCancelReplace<G> request will only be accepted if the associated child order(s) can successfully be pulled back. Requests that cannot be processed will be rejected with a CancelReject<3> message.

Only a limited number of fields can be changed via the OrderCancelReplace<G> message. All other instructions will be carried forward from the previous order. The fields which can be changed via this message are:

- ☐ OrderQty<38>
- ☐ TimeInForce<59>

It can be used to re-open a filled order by increasing OrderQty<38>.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------------------|-------|------|---------------------|
| | <i>Standard Header</i> | Y | | <i>MsgType = AC</i> |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|---|-------------------------|---|--------|--|
| 11 | ClOrdId | Y | string | Client order ID of the cancel request (24 character max) |
| 41 | OrigClOrdID | Y | string | ClOrdID<11> of the previous order (NOT the initial order of the day) when canceling an order. (24 character max) |
| Modifiable NewOrderMultileg Fields (See list above) | | | | |
| | <i>Standard Trailer</i> | Y | | |

ExecutionReport (SpiderRock to Client)

SpiderRock natively follows FIX 4.4 rules for ExecutionReport handling but can switch to FIX 4.2 on request.

| Tag | Field Name | Req'd | Type | Comments |
|------|------------------------|-------|---------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = 8</i> |
| 37 | OrderID | Y | string | Unique ID for order chain assigned by SpiderRock |
| 198 | SecondaryOrderID | N | string | Value from executing venue |
| 11 | ClOrdID | Y | string | Value from client request |
| 41 | OrigClOrdID | N | string | Conditionally required for response to a Cancel or Cancel/Replace request □ (ExecType=PendingCancel, Replaced, or Canceled) |
| 76 | ExecBroker | N | string | Value from executing venue |
| 5036 | SRUsername | N | string | Used for customer service and futures compliance |
| 5012 | SRAItAcct | N | string | |
| 5410 | SRExtTraderId | N | string | |
| 5350 | SRExecBrokerMPID | N | string | Executing broker MPID |
| 17 | ExecID | Y | string | Unique ID assigned by SpiderRock |
| 20 | ExecTransType | Y | int | |
| 19 | ExecRefID | N | string | |
| 150 | ExecType | Y | char | |
| 60 | TransactTime | Y | utcDttm | Time the transaction represented by this ExecutionReport occurred |
| 39 | OrdStatus | Y | char | |
| 103 | OrdRejReason | N | int | For optional use with ExecType = 8 (Rejected) |
| 378 | ExecRestatementReason | N | int | If replaced in the SpiderRock System using another order entry method |
| 1 | Account | Y | string | Assigned by SpiderRock |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|-----------|-----------------------|---|--------|--|
| 54 | Side | Y | char | Value from executing venue <input type="checkbox"/> Value may differ from client's order if execution order is sold short. |
| 38 | OrderQty | Y | int | |
| 40 | OrdType | Y | char | Order type of this execution |
| 77 | OpenClose | N | char | Value from client's order |
| 44 | Price | N | float | Value from client's order |
| 528 | OrderCapacity | N | char | Value from order to venue |
| 32 | LastShares | Y | int | |
| 31 | LastPx | Y | float | |
| 30 | LastMkt | N | string | Value from executing venue |
| 29 | LastCapacity | N | string | Value from executing venue |
| 151 | LeavesQty | Y | int | 0 if order is not active, not (OrderQty-Cum) |
| 14 | CumQty | Y | int | |
| 6 | AvgPx | Y | float | Execution price |
| 58 | Text | N | string | |
| 5605 | SRRejectCode | N | int | See Appendix C for a list of SR reject codes |
| 442 | MultiLegReportingType | N | char | Used to indicate what an Execution Report represents (e.g. used with multi-leg securities, such as option strategies, spreads, etc.). 1 = SINGLE_SECURITY 2 = INDIVIDUAL_LEG 3 = MULTI_LEG_SECURITY |
| 654 | LegRefID | N | string | Used to identify a specific leg for multileg order execution reports |
| 439 | ClearingFirm | N | string | Value from client's order, or SpiderRock account config |
| 440 | ClearingAccount | N | string | Value from client's order, or SpiderRock account config |
| Symbology | | | | |
| 22 | IdSource | N | int | Value from client's order |
| 48 | SecurityId | N | string | Value from client's order |
| 167 | SecurityType | N | string | Value from client's order |
| 55 | Symbol | Y | string | Value from client's order |
| 65 | SymbolSfx | N | string | Value from client's order |
| 207 | SecurityExchange | Y | string | Exchange |
| 461 | CFIcode | N | string | Value from client's order |
| 201 | PutOrCall | N | int | Value from client's order |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|--------------------|-------------------------|---|--------|--|
| 541 | MaturityDate | N | string | Value from client's order YYYYMMDD |
| 200 | MaturityMonthYear | N | string | Value from client's order YYYYMM |
| 205 | MaturityDay | N | int | Value from client's order 1-31 |
| 202 | StrikePrice | N | price | Value from client's order |
| Billing Parameters | | | | |
| 5648 | SRBillingCategory | N | string | B = Basic T = Tied A = Alpha A50 = AlphaTop50 S = Seeker L = Legger P = Post M = Matrix F = Facilitate D = DMA E = Extern DR = Drop TK = Ticket MN = Manual SO = SymOverride AU = Auction |
| 5613 | SRBillingRate | N | float | Tier 1 billing rate |
| 5610 | SRLiquidityTag | N | string | From SpiderRock normalized venue liquidity tag |
| 5614 | SRExchFeeEst | N | float | From exchange published Fee Schedules |
| 5611 | SRExchLiqTag | N | string | Exchange supplied liquidity code |
| | <i>Standard Trailer</i> | Y | | |

OrderCancelRequest (Client to SpiderRock)

An OrderCancelRequest<F> message requests the cancelation of all the remaining quantity of an order. The request will only be accepted if the order can be successfully pulled back from an exchange floor or equivalent venue.

An OrderCancelRequest<F> must assign a unique ClOrdID<11> (different from the ClOrdID<11> of the order to be canceled). If the OrderCancelRequest<F> is rejected, the ClOrdID<11> of the OrderCancelRequest<F> is sent in the ClOrdID<11> field of CancelReject<3> message, and the ClOrdID<11> of the order intended to be canceled, is communicated in the OrigClOrdID<41> field of the CancelReject<3> message.

An OrderCancelRequest<F> must contain either an OrigClOrdID<41> or an OrderID<37> to determine which order to cancel. If both the OrigClOrdID<41> and the OrderID<37> fields are populated and refer to different orders, both orders will be canceled. All other fields are optional and will not be used to validate the OrderCancelRequest<F> against the order to be canceled.

Order Entry Specification – SpiderRock FIX Gateway Reference

If the OrigClOrdID or OrderID are from an earlier order in a cancel/replace chain (either the initial order of the day or a subsequent order, but not the previous order) then the OrderCancelRequest will be rejected; however, the previous (most recent) order in the chain will be canceled.

| Tag | Field Name | Req'd | Type | Comments |
|-----|-------------------------|-------|--------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = F</i> |
| 11 | ClOrdId | Y | string | Client order ID of the cancel request (24 character max) |
| 41 | OrigClOrdID | Y | string | ClOrdID<11> of the previous order (NOT the initial order of the day) when canceling an order (24 character max) |
| 37 | OrderID | N | string | SR assigned OrderID (from an ExecutionReport message) <input type="checkbox"/> Note: one of OrigClOrdID or OrderID must be supplied. |
| 55 | Symbol | N | string | |
| 65 | SymbolSfx | N | string | |
| 167 | SecurityType | N | string | Must be specified if a Future or Option <input type="checkbox"/> If a Future: Symbol<55>, SecurityType<167>, and MaturityMonthYear<200> are required <input type="checkbox"/> If an Option: Symbol<55>, SecurityType<167>, MaturityMonthYear<200>, PutOrCall<201>, and StrikePrice<202> are required |
| 200 | MaturityMonthYear | N | string | For Futures and Options |
| 205 | MaturityDay | N | int | For Futures and Options |
| 201 | PutOrCall | N | int | For Options |
| 202 | StrikePrice | N | float | For Options |
| 54 | Side | N | char | 1 = Buy 2 = Sell 5 = Sell short 6 = Sell short exempt Y = Sell auto (SR determines whether child orders should be selling long or short by looking up account/aggregate group position when child orders are created) |
| 60 | TransactTime | Y | utcDtm | Time this order request was initiated/released <input type="checkbox"/> (Note: this order must arrive at SR within 15 seconds of TransactTime to be considered a valid order.) |
| 38 | OrderQty | N | int | Executable quantity |
| 58 | Text | N | string | User supplied text such as a cancel reason |
| | <i>Standard Trailer</i> | Y | | |

OrderCancelReject (SpiderRock to Client)

SpiderRock FIX Gateways follow FIX 4.4 style rules for CancelReject handling but can switch to FIX 4.2 on request.

| Tag | Field Name | Req'd | Type | Comments |
|-----|-------------------------|----------|--------|---|
| | <i>Standard Header</i> | <i>Y</i> | | <i>MsgType = 8</i> |
| 37 | OrderID | Y | string | Unique ID for order chain assigned by SpiderRock |
| 11 | ClOrdID | Y | string | Value from client request |
| 41 | OrigClOrdID | Y | string | Conditionally required for response to a Cancel or Cancel/Replace request (ExecType=PendingCancel, Replaced, or Canceled) |
| 434 | CxlRejResponseTo | Y | char | Valid values: 1 = OrderCancelRequest <F> 2 = OrderCancel/Replace Request <G> |
| 102 | CxlRejReason | N | int | |
| 39 | OrdStatus | Y | char | OrdStatus value after this cancel reject is applied |
| 58 | Text | N | string | |
| | <i>Standard Trailer</i> | <i>Y</i> | | |

MassCancelRequest (Client to SpiderRock)

MassCancelRequest<q> causes the immediate cancelation of the remaining quantity of either:

- ☐ all the orders,
- ☐ or just orders for a given underlying symbol.

Order cancelation may be for only a specific Account<1>, or if no Account<1> is specified in the message, all orders active on the FIX session are canceled.

| Tag | Field Name | Req'd | Type | Comments |
|-----|------------------------|----------|---------|--|
| | <i>Standard Header</i> | <i>Y</i> | | <i>MsgType = q</i> |
| 11 | ClOrdId | Y | string | Unique ID (24 character max) |
| 1 | Account | Y | string | SpiderRock supplied account |
| 530 | MassCancelRequestType | Y | int | Specifies the type of cancelation requested 2 - Cancel orders for an Underlying security 7 - All Orders (for the specified Account<1>, or all orders on the Fix session if no account is specified). |
| 60 | TransactTime | Y | utcDttm | Time this order request was initiated/released by the trader or trading system |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | | |
|--|-------------------------|---|--|--|
| | <i>Standard Trailer</i> | Y | | |
|--|-------------------------|---|--|--|

MassCancelReport (SpiderRock to Client)

The MassCancelReport<r> message acknowledges a MassCancelRequest<q>. Note that each affected order receives its own ExecutionReport<8> or OrderCancelReject<9> response.

| Tag | Field Name | Req'd | Type | Comments |
|-----|-------------------------|-------|--------|--|
| | <i>Standard Header</i> | Y | | <i>MsgType = r</i> |
| 11 | ClOrdID | Y | string | Unique ID (24 character max) |
| 1 | Account | Y | string | SpiderRock supplied account |
| 37 | OrderID | Y | string | Unique ID for order assigned by SpiderRock |
| 530 | MassCancelRequestType | Y | char | Specifies the type of cancelation requested 2 - Cancel orders for an Underlying security 7 – All Orders (for the specified Account<1>, or all orders on the Fix session if no account is specified). |
| 531 | MassCancelResponse | Y | int | Indicates the action taken by the counterparty order handling system as a result of the Cancel Request <input type="checkbox"/> 0 – Indicates Order Mass Cancel Request was rejected |
| 532 | MassCancelRejectReason | N | string | |
| 58 | Text | N | string | |
| | <i>Standard Trailer</i> | Y | | |

Appendix A - Issuing Authority

Issuing authority symbol prefixes accepted in SecurityExchange<207> by SpiderRock

| Prefix | Issuing Authority |
|--------|--|
| CBOT | CBOT – CME Group |
| CFE | Chicago Future Exchange |
| CME | Chicago Mercantile Exchange – CME Group |
| COMEX | COMEX – CME Group |
| ICE | Intercontinental Exchange |
| NMS | US Equity National Market System Tickers (NYSE, NASDAQ, AMEX, etc) |
| NYMEX | NYMEX – CME Group |

Appendix B - LastMkt/ExDest Values

These values are based on the MIC codes <http://www.iso15022.org/MIC/homepageMIC.htm>

| Exchange | Stock | Options | Spreads/COB |
|--------------|-------|-----------------|-------------|
| AMEX | XASE | AMXO | |
| ARCA | ARCX | ARCO | |
| BATS | BATS | BATO | |
| BATS-Y | BATY | | |
| BOX | | XBOX | |
| CBOE | | XCBO | XCBO |
| C2 | | C2OX | |
| EDGA | EDGA | | |
| EDGX | EDGX | | |
| ISE Gemini | | GMNI | |
| ISE | | XISX | XISX |
| Miami MIAx | | XMIO | |
| NYSE | XNYS | <i>see ARCA</i> | |
| NASDAQ | XNAS | XNDQ | |
| NASDAQ BX | XBOS | XBXO | |
| PHLX | | XPHL | XPHL |
| AMEX | XASE | AMXO | |
| ARCA | ARCX | ARCO | |
| BATS | BATS | BATO | |
| ISE Mercury | | MCRY | MCRY |
| Edge Options | | EDGO | |
| IEX | IEXG | | |

Appendix C - Reject Codes – SRRejectCode<5605>

| Code | | | |
|-----------------|------------------------|---------------------|-----------------------|
| 0 = None | 32 = DupLegID | 64 = BadLegKeyType | 96 = MarMaxFc2 |
| 1 = AccntHold | 33 = MixedRoots | 65 = UnknwnRefStk | 97 = MarNoRec3 |
| 2 = UnknwnOpt | 34 = OffMkt | 66 = BadRefMktPrc | 98 = MarDisabled3 |
| 3 = UnknwnStk | 35 = CentVol | 67 = UnknwnRefFut | 99 = MarMaxCn3 |
| 4 = Expired | 36 = CentLeg | 68 = UnknwnRefAtm | 100 = MarMaxSh3 |
| 5 = BadSize | 37 = CentRng | 69 = BadRefVe | 101 = MarOptMny3 |
| 6 = BadOrdNum | 38 = CentSAtm | 70 = BadProdDef | 102 = MarStkMny3 |
| 7 = DupOrdNum | 39 = CentSpln | 71 = MarNoRec | 103 = MarRestricted3 |
| 8 = BadVolPx | 40 = CentErr | 72 = MarDisabled | 104 = MarCrdtAcc3 |
| 9 = BadLmtType | 41 = NoRiskGrp | 73 = MarMaxCn | 105 = MarCrdtDay3 |
| 10 = BadMktPrc | 42 = BadDDivs | 74 = MarMaxSh | 106 = MarTotExp3 |
| 11 = BadLimit | 43 = NoPricer | 75 = MarOptMny | 107 = MarOddLot3 |
| 12 = SysReject | 44 = CalcErr | 76 = MarStkMny | 108 = MarFutMny3 |
| 13 = TestOrder | 45 = TwapLate | 77 = MarRestricted | 109 = MarMaxFc3 |
| 14 = CustType | 46 = TwapTime | 78 = MarCrdtAcc | 110 = SpdrMaxSh |
| 15 = NoFirmPos | 47 = NoAcctMap | 79 = MarCrdtDay | 111 = SpdrMaxFc |
| 16 = BadCent | 48 = UserUnk | 80 = MarTotExp | 112 = SpdrMaxCn |
| 17 = NoSurface | 49 = UserHold | 81 = MarOddLot | 113 = SpdrStkMny |
| 18 = UnknwnAcc | 50 = GTCHold | 82 = MarFutMny | 114 = SpdrFutMny |
| 19 = UnknwnRoot | 51 = SysException | 83 = MarMaxFc | 115 = SpdrOptMny |
| 20 = OrdSpacing | 52 = StkCrossed | 84 = MarNoRec2 | 116 = SpdrHold |
| 21 = BadOptMkt | 53 = BadOrdType | 85 = MarDisabled2 | 117 = SpdrOptNv |
| 22 = BadStkMkt | 54 = BadSSaleFlag | 86 = MarMaxCn2 | 118 = SpdrDayCn |
| 23 = SendFailed | 55 = NoBorrow | 87 = MarMaxSh2 | 119 = SpdrDayFc |
| 24 = BadExpose | 56 = NoFacilitateAccnt | 88 = MarOptMny2 | 120 = SpdrDaySh |
| 25 = BadPrem | 57 = UnknwnFut | 89 = MarStkMny2 | 121 = SpdrDayNv |
| 26 = NoOptLeg | 58 = MktNotOpen | 90 = MarRestricted2 | 122 = SpdrFutPosDeAbs |
| 27 = Min2Leg | 59 = NoRoutes | 91 = MarCrdtAcc2 | 123 = SpdrFutDayDeAbs |
| 28 = Max6Leg | 60 = NoLocate | 92 = MarCrdtDay2 | 124 = SpdrFutDayDeBot |
| 29 = BadStkSz | 61 = SSaleRstr | 93 = MarTotExp2 | 125 = SpdrFutDayDeSld |
| 30 = BadRatio | 62 = NoLegs | 94 = MarOddLot2 | 126 = SpdrExpPosDeAbs |
| 31 = BadLegID | 63 = BadSide | 95 = MarFutMny2 | 127 = SpdrExpDayDeAbs |

Order Entry Specification – SpiderRock FIX Gateway Reference

| | | | |
|------------------------|-----------------------|--|--|
| 128 = SpdrExpDayDeBot | 160 = NoProdDef | | |
| 129 = SpdrExpDayDeSld | 161 = BadRiskID | | |
| 130 = UserRisk | 162 = InvldAutoH | | |
| 131 = UserMaxCn | 163 = LegChange | | |
| 132 = UserMaxSh | 164 = CxlSpacing | | |
| 133 = UserOptMny | 165 = BadHedgeInst | | |
| 134 = UserStkMny | 166 = TooLateToReduce | | |
| 135 = UserFutMny | 167 = PendCxlRepl | | |
| 136 = UserOptNv | 168 = InvldCxlRepl | | |
| 137 = UserDayCn | 169 = InvldCxl | | |
| 138 = UserDayNv | 170 = DmaReject | | |
| 139 = UserDayFc | 171 = NoUPrc | | |
| 140 = UserDaySh | 172 = TwapSteps | | |
| 141 = USymFutMny | 173 = UnknwnFirm | | |
| 142 = UserMaxFc | | | |
| 143 = USymMaxFc | | | |
| 144 = USymHold | | | |
| 145 = USymMaxCn | | | |
| 146 = USymMaxSh | | | |
| 147 = USymOptMny | | | |
| 148 = USymStkMny | | | |
| 149 = USymOptNv | | | |
| 150 = USymDayCn | | | |
| 151 = USymDayNv | | | |
| 152 = USymDayFc | | | |
| 153 = USymDaySh | | | |
| 154 = AccFrozen | | | |
| 155 = ConfigErr | | | |
| 156 = NoFMFuture | | | |
| 157 = NoSpdrSymCtrl | | | |
| 158 = NoSpdrSymExpCtrl | | | |
| 159 = NoLinkage | | | |

Version History

| Version | Date | Comment |
|---------|------|---------|
| | | |