

Executions

CHANNEL `wss://ws-auth.kraken.com/v2` `executions`

Authentication Required

The `executions` channel streams order status and execution events for this account.

It corresponds to a combination of the following Websockets v1 channels: `openOrders` and `ownTrades`.

This channel contains account specific data, an authentication token is required in the request.

Subscribe Request

[Subscribe Schema](#)

[Subscribe Ack Schema](#)

[Example: Subscribe](#)

[Example: Subscribe Ack](#)

MESSAGE BODY

method string REQUIRED

Value: `subscribe`

params object

channel string REQUIRED

Value: `executions`

snap_trades boolean

Possible values: [`true`, `false`]

Default value: `false`

If `true`, the last 50 order fills will be included in snapshot.

snap_orders boolean

Possible values: [`true`, `false`]

Default value: `true`

If `true`, open orders will be included in snapshot.

order_status boolean

Possible values: [☐ true , ☐ false]

Default value: ☐ true

If ☐ true , all possible status transitions will be sent. Otherwise, only open / close transitions will be streamed: ☐ new , ☐ filled , ☐ canceled , ☐ expired .

ratecounter boolean

Possible values: [☐ true , ☐ false]

Default value: ☐ false

If ☐ true , the rate-limit counter is included in the stream.

snapshot_trades boolean

DEPRECATED

Deprecated Usage: Use 'snap_trades' field.

Possible values: [☐ true , ☐ false]

If ☐ true , snapshot provides only trade events. Otherwise, open orders and trades will be included in snapshot.

snapshot boolean

DEPRECATED

Deprecated Usage: Use 'snap_orders' or 'snap_trades' field.

Possible values: [☐ true , ☐ false]

Request a snapshot after subscribing.

token string

REQUIRED

This is a authenticated channel, a session token is required. See guides on how to generate a token via REST.

req_id integer

Optional client originated request identifier sent as acknowledgment in the response.

Snapshot / Update Responses

The snapshot and update stream share the same data schema, the fields included in the message is dependant on the ☐ exec_type .

By default, the snapshot response contains all open orders and latest 50 trades.

The snapshot message content can be adjusted with the subscription parameters.

[Snapshot / Update Schema](#)

[Example: Pending](#)

[Example: Live Order](#)

[Example: Execution](#)

MESSAGE BODY

— **channel** string

Value: `executions`

— **type** string

Possible values: [`snapshot`, `update`]

— **data** array [

A list of execution reports: order status and fills.

— [many] **execution_report** object

— **amended** boolean

Possible values: [`true`, `false`]

Indicates if the order has been amended, the modification history can be extracted from the REST `OrderAmends` endpoint. This field is present in the `snapshot` and the `amended`, `restated` event types.

— **avg_price** float

Order's average fill price.

— **cash_order_qty** float

Order volume expressed in quote currency (if specified on the original order).

— **cl_ord_id** string

Optional client identifier associated with the order.

— **contingent** object

The contingent object describes the template for generating the secondary close orders when the primary order fills.

— **order_type** string

Possible values: [`limit`, `stop-loss`, `stop-loss-limit`, `take-profit`, `take-profit-limit`, `trailing-stop`, `trailing-stop-limit`]

Describes the order type of the secondary orders which will be created on each fill.

— **trigger_price** float _____ **CONDITIONAL**

Condition: Only on triggered secondary order types.

Describes the trigger price amount on the secondary orders. This field is used in combination with the `contingent.trigger_price_type` field to determine the effective trigger price.

trigger_price_type string CONDITIONAL

Condition: Only on triggered secondary order types.

Possible values: [`static`, `pct`, `quote`]

Describes trigger price units on the secondary orders.

- `static`: a static market price for the asset, i.e. 30000 for BTC/USD.
- `pct`: a percentage offset from the reference price, i.e. -10% from index price.
- `quote`: a notional offset from the reference price in the quote currency, i.e. 150 BTC/USD from last price

limit_price float CONDITIONAL

Condition: Only on secondary order types that support limit price.

Describes limit price amount on the secondary orders. This field is used in combination with the `contingent.limit_price_type` field to determine the effective limit price.

limit_price_type string CONDITIONAL

Condition: Only on secondary order types that support limit price.

Possible values: [`static`, `pct`, `quote`]

Describes limit price units on the secondary orders.

- `static`: a static market price for the asset, i.e. 30000 for BTC/USD.
- `pct`: a percentage offset from the reference price, i.e. -10% from index price.
- `quote`: a notional offset from the reference price in the quote currency, i.e. 150 BTC/USD from last price

cost float CONDITIONAL

Condition: trade events only.

Value of an individual execution.

cum_cost float

The order cumulative value executed.

cum_qty float

The order cumulative executed quantity.

display_qty float

Display quantity for iceberg order types.

display_qty_remain float

CONDITIONAL

Condition: Iceberg Order

Indicates next display_qty in Iceberg order.

effective_time string

Format: RFC3339

Example: 2022-12-25T09:30:59.123456Z

Scheduled start time of the order.

exec_id string

CONDITIONAL

Condition: trade events only.

Execution identifier.

exec_type string

Possible values: [`pending_new`, `new`, `trade`, `filled`, `iceberg_refill`, `canceled`, `expired`, `restated`, `status`]

Describes the type of order event and determines the set of fields in the message.

- `pending_new`: Order request has been received and validated but the order is not live yet.
- `new`: Order has been created and is live in the engine.
- `trade`: The order has received a fill.
- `filled`: The order has been fully filled.
- `canceled`: The order has been cancelled.
- `iceberg_refill`: Indicates an Iceberg order refill.
- `expired`: The order has expired.
- `amended`: There is a user initiated amend on the order, i.e. limit price change.
- `restated`: There is a engine initiated amend on the order for maintenance of position or book, see `reason` field, i.e. reduce non-tradable liquidity.
- `status`: The order has a status update, i.e. trigger price has been updated.

expire_time string

Format: RFC3339

Example: 2022-12-25T09:30:59.123456Z

Scheduled expiration time of the order.

— **ext_ord_id** string

Format: UUID

An optional, external partner order identifier shown on order events.

— **ext_exec_id** string

Format: UUID

An optional, external partner execution identifier shown on trade events.

— **fees** array [_____] **CONDITIONAL**

Condition: trade events only.

The fees paid on this trade event. Currently, the fees are expressed in the quote currency only.

— [0] fee object

— **asset** string

The fee currency.

— **qty** float

The fee amount.

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— **fee_ccy_pref** string

The preferred currency for paying fees.

- **fcib**: prefer fee in base currency.
- **fcic**: prefer fee in quote currency.

— **fee_usd_equiv** float

The total fee paid in USD.

— **limit_price** float

Limit price for order types that support limit price restriction.

— **liquidated** boolean

Indicates if the order has been liquidated by the engine.

— **liquidity_ind** string

Possible values: [**m**, **t**]

The liquidity indicator: `t` taker, `m` maker.

last_price float CONDITIONAL

Condition: trade events only.

The average price in this trade event.

last_qty float CONDITIONAL

Condition: trade events only.

The quantity filled in this trade event.

margin boolean

Indicates if the order can be funded on margin.

margin_borrow boolean

Indicates if an execution is on margin, i.e. if the trade increased or reduced size of margin borrowing. On trade events only.

no_mpp boolean

Indicates if the order has market price protection.

ord_ref_id string

Referral order transaction id that created this order.

order_id string

Unique order identifier generated by Kraken.

order_qty float

The client order quantity.

order_type string

Possible values: [`limit`, `market`, `iceberg`, `stop-loss`, `stop-loss-limit`, `take-profit`, `take-profit-limit`, `trailing-stop`, `trailing-stop-limit`, `settle-position`]

The execution model of the order.

order_status string

Describes current state of the order.

- `pending_new`: Order has been received but not yet created by the engine.
- `new`: Order is live but has no fills.
- `partially_filled`: Order is live and some fills.
- `filled`: The order has been fully filled.
- `canceled`: The order has been cancelled.

- `expired`: The order has expired.

— **order_userref** integer

Optional numeric, client identifier associated with one or more orders.

— **post_only** boolean

Possible values: [`true`, `false`]

Indicates a post only order.

— **position_status** string

Possible values: [`opened`, `closing`, `closed`]

Indicates status of the position on a margin order.

— **reason** string

The reason associated with an event, if applicable.

— **reduce_only** boolean

Possible values: [`true`, `false`]

Indicates a reduce only order.

— **sender_sub_id** string

For institutional accounts, identifies underlying sub-account/trader for Self Trade Prevention (STP).

— **side** string

Possible values: [`buy`, `sell`]

Side of the order.

— **symbol** string

Example: "BTC/USD"

The symbol of the currency pair.

— **time_in_force** string

Possible values: [`GTC`, `GTD`, `IOC`]

Time-in-force specifies how long an order remains in effect before being expired.

- `GTC`: Good Till Canceled
- `GTD`: Good Till Date
- `IOC`: Immediate Or Cancel

— **timestamp** string

Format: RFC3339

Example: 2022-12-25T09:30:59.123456Z

Time of the event.

— **trade_id** integer

The trade identifier.

— **triggers** object

Describes the parameters and status of the price trigger for triggered order types.

— **reference** string

Possible values: [`index` , `last`]

The reference price tracked for triggering orders.

— **price** float

Specifies the amount for the trigger price - it supports both static market prices and relative prices. This field is used in combination with the `price_type` field below to determine the effective trigger price.

— **price_type** string

Possible values: [`static` , `pct` , `quote`]

The units for the trigger price.

- `static`: a static market price for the asset, i.e. 30000 for BTC/USD.
- `pct`: a percentage offset from the reference price, i.e. -10% from index price.
- `quote`: a notional offset from the reference price in the quote currency, i.e. 150 BTC/USD from last price

— **actual_price** float

The current value of the effective trigger price, this is useful if the trigger was entered using a relative price or the trigger price changes over time.

— **peak_price** float

The peak / trough price on `trailing-stop` and `trailing-stop-limit` orders.

— **last_price** float

On trigger activation, the value of the reference last price that triggered the order.

— **status** string

Possible values: [`triggered` , `untriggered`]

The status is set to `triggered` when the trigger conditions are met and the order becomes active.

timestamp string

Format: RFC3339

Example: 2022-12-25T09:30:59.123456Z

On trigger activation, the timestamp of the trigger event.

cancel_reason string

DEPRECATED

Deprecated Usage: Use 'reason' field.

Cancellation reason.

stop_price float

DEPRECATED

Deprecated Usage: Use 'triggers' object.

The stop price for triggered order types.

trigger string

DEPRECATED

Deprecated Usage: Use 'triggers' object.

Possible values: [`index`, `last`]

Reference price for triggered order types.

triggered_price float

DEPRECATED

Deprecated Usage: Use 'triggers' object.

Price which triggered the order.

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Unsubscribe Request

Unsubscribe Schema

Unsubscribe Ack Schema

Example: Unsubscribe

Example: Unsubscribe Ack

MESSAGE BODY

method string

REQUIRED

Value: `unsubscribe`

params object

channel string

REQUIRED

Value: `executions`

REQUIRED**token** string

This is a authenticated channel, a session token is required. See guides on how to generate a token via REST.

req_id integer

Optional client originated request identifier sent as acknowledgment in the response.