Events

Summary

The event pipeline allows developers to easily create real-time applications by letting them listen for important state changes and lifecycle events.

Wildcards

- An event name passed to any event emitter method can contain a wildcard (the*
- character). A wildcard may appear asfoo/*
- ,foo/bar/*
- , or simply*
- .
- *
- matches one sub-level.
-

e.g.price/* will trigger on bothprice/USD_ETH andprice/MKR_USD but notprice/MKR_USD/foo .

- matches all sub-levels.
-

e.g.price/** will trigger onprice/USD_ETH ,price/MKR_USD , andprice/MKR_USD/foo .

Event Object

Triggered events will receive the object shown on the right.

-
  -
    - the name of the event
-
  -
    - the new state data sent with the event
-
  -
    - a sequentially increasing index
-
  -
    - the current block at the time of the emit
-

```

Copy { type:, payload: , / *if applicable* / index: , block: }

```

Maker Object

Price

Event Name Payload price/ETH_USD { price } price/MKR_USD { price } price/WETH_PETH { ratio } ```

Copy maker.on('price/ETH_USD',eventObj=>{ const{price}=eventObj.payload; console.log('ETH price changed to',price); })

```

Web3

Event Name Payload web3/INITIALIZED { provider: { type, url } } web3/CONNECTED { api, network, node } web3/AUTHENTICATED { account } web3/DEAUTHENTICATED { } web3/DISCONNECTED { } ```

Copy maker.on('web3/AUTHENTICATED',eventObj=>{ const{account}=eventObj.payload; console.log('web3 authenticated with account',account); })

```

CDP Object

Event Name Payload COLLATERAL { USD, ETH } DEBT { dai } ```

Copy cdp.on('DEBT',eventObj=>{ const{dai}=eventObj.payload; console.log('Your cdp now has a dai debt of',dai); })

```

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