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OpenSea Stream API

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Stream API Event Example Payloads

Item Listed Payload

JSON { "event":"item_listed", "sent_at":"2022-12-01T16:54:24.212517+00:00", "payload":{ "event_type":"item_listed", "payload":{ "base_price":"50000000000000000", "collection":{ "slug":"boredfrens"}, "event_timestamp":"2022-12-01T16:54:23.974726+00:00", "expiration_date":"2022-12-02T16:54:22.000000+00:00", "is_private":false, "item":{ "chain":{ "name":"ethereum"}, "metadata":{ "animation_url":null, "image_url":"https://i.seadn.io/gae/6X_IRBPw33gDSZFIHxBBs6pSfQU8Z8c1ECpRV_Nru-fDvO6ORUky5GhpXeAtTR2ZNvkf8vEipW5-4NbdVOBOPr3aF1P_1Z-Mid6LLF8? w=500&auto=format", "metadata_url":null, "name":"Devil Frens #18682" }, "nft_id":"ethereum/0x495f947276749ce646f68ac8c248420045cb7b5e/74630152366364009569833059154376861594951644105207272687495389092116791558145",

Item Sold Payload

Item Transferred Payload

"nft_id":"ethereum/0x495f947276749ce646f68ac8c248420045cb7b5e/91577084333317265455693574180089203123053062749515767918158455086200710496257",
"permalink":"https://opensea.io/assets/ethereum/0x495f947276749ce646f68ac8c248420045cb7b5e/91577084333317265455693574180089203123053062749515767918158455086200710496257"
}, "quantity":1, "to_account":{ "address":"0xca76cafcb62c22f9c59a36287f0a6e0979834e04" }, "transaction":null } }, }

Item Metadata Update Payload

Messages that represent item listing events will include an event_type of item_metadata_updated .

Example

JSON { "event_type": "item_metadata_updated", "sent_at": "2022-04-25T23:32:14.486643+00:00", "payload": { "name": "Doodle #222", "description": "A community-driven collectibles project featuring art by Burnt Toast. Doodles come...", "image_preview_url": "https://lh3.googleusercontent.com/R7wtoDNdmM7GhTvVjr4JGA6q60z44Hn2nlymPjAEXcjnD8oBPxQYPA1GkrCnvepPM1Sc8DIIHZql4Yucj4ger1jnWmxmuRFwIC_JRw", "animation_url": null, "background_color": "#000000", "metadata_url": "https://opensea.mypinata.cloud/ipfs/QmPMc4tcBsMqLRuCQtPmPe84bpSjrC3Ky7t3JWuHXYB4aS/222", "traits": [] } }

Item Cancelled Payload

Item Received Offer Payload

Item Received Bid Payload

```
JSON { "event_type": "collection_offer", "sent_at":"2022-12-01T16:09:23.287500+00:00", "payload": { "asset_contract_criteria": { "address":"0x8a90cab2b38dba80c64b7734e58ee1db38b8992e" }, "base_price":"60551000000000000000, "collection": { "slug":"doodles-official" }, "collection_criteria": { "slug":"doodles-official" }, "created_date":"2022-12-01T16:09:22.000000+00:00", "event_timestamp":"2022-12-01T16:09:22.951285+00:00", "expiration_date":"2022-12-01T16:25:22.000000+00:00", "item": {
    "address":"0xc1bb39ba8ab14b37d4dd59c457042f639dfef95d
  order_hash":"0xde046c3273a8811e32a52de3b2c705366e67e27115793382c84ef865fc36d941",
  "payment_token":{
    "address":"0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2",
    "decimals":18,
     "eth price":"1.000000000000000".
    "name":"Wrapped Ether",
"symbol":"WETH",
"usd_price":"1215.77999999999973000"
  "protocol_data":{
     "parameters":
       "conduitKey":"0x0000007b02230091a7ed01230072f7006a004d60a8d4e71d599b8104250f0000",
           "endAmount":1
           "identifierOrCriteria":1.0479044511256843e+77.
           "itemType":4
            "recipient": "0xC1BB39bA8aB14b37d4dD59C457042F639dfef95d".
            "startAmount":1,
"token":"0x8a90CAb2b38dba80c64b7734e58Ee1dB38B8992e'
            "endAmount":1513775000000000000
           endamioun: 13137/500000000000,
"identifierOrCriteria":0,
"itemType":1,
"recipient":"0x0000a26b00c1F0DF003000390027140000fAa719",
"startAmount":15137750000000000,
            "token":"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2"
            "endAmount":3027550000000000000,
           "identifierOrCriteria":0,
           "itemType":1,
            "recipient":"0xd1F124cc900624e1ff2d923180b3924147364380",
           "startAmount":302755000000000000,
"token":"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2"
       "counter":0
       "endTime":1669911922,
"offer":[
           "endAmount":6055100000000000000, "identifierOrCriteria":0,
           "itemType":1,
"startAmount":605510000000000000,
"token":"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2"
       "offerer": "0xC1BB39bA8aB14b37d4dD59C457042F639dfef95d".
      "offerer:"UXC18E390A8B11403/04QD59C45/042F639dfet956", 
"orderType:"2, 
"salt":6.054751888727945e+36, 
"startTime":1669910962, 
"totalCriginalConsiderationItems":3, 
"zone":"0x004C00500000aD104D7DBd00e3ae0A5C00560C00",
       ":"0xbff7067712a3f13d3e81a39f076c62adbb0a4e23d3e0f5634fb7b6a130c0a63c7b26f818240d464bfb84109ca8786a3eaef5c2ee1b416d974ed013e63a1c911f1b"
  "quantity":1,
  "taker":null
}}
Trait Offer Payload
JSON { "event_type": "trait_offer", "sent_at": "2022-12-01T16:09:09.819426+00:00", "payload": { "asset_contract_criteria": { "address": "0x8a90cab2b38dba80c64b7734e58ee1db38b8992e" }, "base_price": "676510000000000000000, "collection": { "slug": "doodles-official" }, "collection_criteria": { "slug": "doodles-official" }, "created_date": "2022-12-01T16:09:05.000000+00:00", "event_timestamp": "2022-12-01T16:09:09.698051+00:00", "expiration_date": "2022-12-01T16:38:56.000000+00:00", "item": {
    "address":"0xca9c5d7be1ab0e85791682234873445e0cdff91a"
  order_hash":"0x3fd21a47a5de18c9ec2adfb5ae902586a03a2171014e90dfa7ea1d1baa91277c",
  "payment_token":{
    "address":"0xc02aaa39b223fe8d0a0e5c4f27ead9083c756cc2".
    "decimals":18,
"eth_price":"1.00000000000000",
"name":"Wrapped Ether",
"symbol":"WETH",
     "usd_price":"1215.779999999999973000"
  "protocol data":
    "endAmount":1
            "identifierOrCriteria":1.0153774396642053e+77,
            "itemType":4,
"recipient":"0xcA9C5D7Be1aB0e85791682234873445e0CDfF91a",
            "token": "0x8a90CAb2b38dba80c64b7734e58Ee1dB38B8992e"
            "endAmount":169127500000000000,
           "identifierOrCriteria":0,
            "recipient": "0x0000a26b00c1F0DF003000390027140000fAa719".
           "startAmount":169127500000000000,
"token":"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2"
            "endAmount":3382550000000000000.
           FileAntifier OrCriteria*:0, "identifier OrCriteria*:0, "itemType*:1, "recipient":"0xd TF124c:900624e1ff2d923180b3924147364380", "startAmount":33825500000000000,
            "token":"0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2"
```

"counter":0, "endTime":1669912736, "offer":[

"endAmount":6765100000000000000

Order Invalidation Payload

 $json \{ chain: \{ name: 'ethereum' \}, collection: \{ slug: 'pudgypenguins' \}, event_timestamp: '2023-06-02T19:47:50.950428+00:00', item: \{ \}, order_hash: '0xeb3f34e967bc969932d1c4b55c49d7160dc3fa2c899745f42dbe383b98f60ec0', protocol_address: '0x0000000000000000dc04c56bf30ac9d3c0aaf14dc' \} linear (linear collection) and the protocol collection in the protocol collection i$

Order Revalidation Paylod

 $json \{ chain: \{ name: 'ethereum' \}, collection: \{ slug: 'pudgypenguins' \}, event_timestamp: '2023-06-02T19:47:50.950428+00:00', item: \{ \}, order_hash: '0xeb3f34e967bc969932d1c4b55c49d7160dc3fa2c899745f42dbe383b98f60ec0', protocol_address: '0x0000000000000000dc04c56bf30ac9d3c0aaf14dc' \} linear transfer of the protocol_address in the protoc$