

Coindeal API-Documentation

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Offer-table

This micro-service is most important for trading functionality API to client application.

It sends informations about aggregated order and transactions lists for market (market is pair of currencies for example **BTC/USD**) and broadcasts to connected clients informations about new orders and transactions. Also when user want create an offer needs to use this service.

How to listen over WebSocket (SocketCluster)?

1. Download and implement to your app socket liblary [client SocketCluster](#).
2. Using this client start subscribing channel
 - `aggregated-offer` - incoming offers
 - `init-aggregated-offers` - initial aggregated offers to market (sorted by unit price)
 - `transaction` - incoming transactions (not aggregated)
 - `transactions` - aggregated transactions list
 - `exchange-state@{base-currency}-{quote-currency}`
- state of market for pair, for example: `exchange-state@LTC-USD`

- `theoretical-opening-price@{base-currency}-{quote-currency}` - theoretical opening price for pair, for example: `theoretical-opening-price@LTC-USD`

3. Watch those channels for react for events

Orders

For getting full state of orders you are required to fetch current state of market (historical orders) - for that you need subscribe `init-aggregated-offers` channel.

Subscription to `aggregated-offer` channel makes that we will receive only orders which parameters have changed since starting subscription.

For better understanding, I will add sample snippets in `javascript`

```
var socket = socketCluster.connect();

socket.emit('init-aggregated-offers', stockExchange, function(errCode, response) {
  if (errCode) {
    // error occurred - details are in response
  } else {
    // success
    response.forEach(function(stockMarketAggregatedOffersDto) {
      // handle StockMarket X OfferType intersection
```

```
    });  
  }  
});
```

Param `stockExchange` is object with shape:

```
{  
  "baseCurrency": "PLN",  
  "quoteCurrency": "LTC"  
}
```

Example response:

```
[  
  {  
    aggregatedOffers: [  
      {  
        aggregationTime: 1535121440926,  
        amount: "1.00000000",  
        unitPrice: "30.00000000",  
      },  
      {...}, {...}, {...}, {...}, ...  
    ],  
    baseCurrency: "BTC"  
    quoteCurrency: "EUR"  
    type: "buy"  
  },  
]
```

```

    {
      aggregatedOffers: [
        {
          aggregationTime: 1536293178182,
          amount: "0.01142228",
          unitPrice: "5700.00000000",
        },
        {...}, {...}, {...}, {...}, ...
      ]
      baseCurrency: "BTC"
      quoteCurrency: "EUR"
      type: "sell"
    }
  ]
]

```

Transactions

It's possible to build transactions list by:

- Listening to subsequent transactions
- Fetching N last transactions

How to fetch N transactions from WebSocket API?

```

var socket = socketCluster.connect();

socket.emit('transactions', listOptions, function(errCode,

```

```
response) {
  if (errCode) {
    // error occurred - details are in response
  } else {
    // success
    response.forEach(function(transactionDTO) {
      // handle single transaction
    });
  }
});
```

Important param `listOptions` have shape:

```
interface TransactionListOptions {
  "limit": number;
  "baseCurrency": string;
  "quoteCurrency": string;
}
```

All above fields are obligatory.