Partner Application Program Interface (API)

The URL generally has the form /api/partners/<resource>/<action>, which could either retrieve a result or perform some action.

When retrieving a result, the API expects a HTTP GET method, and when performing an action, it expects a HTTP POST.

The resource /api/partners/investors refer to all the investor accounts of the partner. To address a specific account, use a URL of the form /api/partners/investors/{account number}/<action>.

Successful results are returned as HTTP 200 responses, with the body containing JSON data. Defined error responses will be in the HTTP 400 range, and undefined server errors in the HTTP 500 range.

Error responses contain the following JSON format:

```
{
   "errors" : [
      {
         "description" : "<error description>",
         "code" : "<error code>"
      }
   ]
}
```

where the error description is a detailed description of the error, and the error code is a short reference of the error.

For example:

HTTP: 400

```
{
   "errors" : [
      {
         "description" : "Account is inactive",
         "code" : "AccountInactiveError"
      }
   ]
```

}

Following here is a list of the supported API calls.

Supported API calls

Get investor holdings	**5**
Get partner transactions	**7**
Get account owners	**9**
Get persons	**9**
Get companies	**11**
Get advisers	**12**
Get brokerages	**13**
Get instruments	**13**
Get investor	**14**

The above calls allow the user access to the various sets of data as outlined in the individual call sections below. These sets of data can be linked together to create i.e. a customised report. Take note of the following:

• An Entity is defined as a Person or a Company and contains the details of the Person (Refer to 4 Get person) and or a Company (Refer to 5 Get companies). The link to the Person and or Companies data sets are via the identifier “Entity id”

• The Instrument data set contains the details of the instruments (Refer to 8 Get instruments), the details are available via linking to the identifier "Instrument id"

• Advisers (Refer to 6 Get advisers) contains a link to the Entity details, as outlined above (Person or a Company) as well as a link to the Brokerage via the identifier "Brokerage Unique id"

• Brokerage (Refer to 7 Get brokerages) contains a link to the Entity details, as outlined above (Person or a Company)

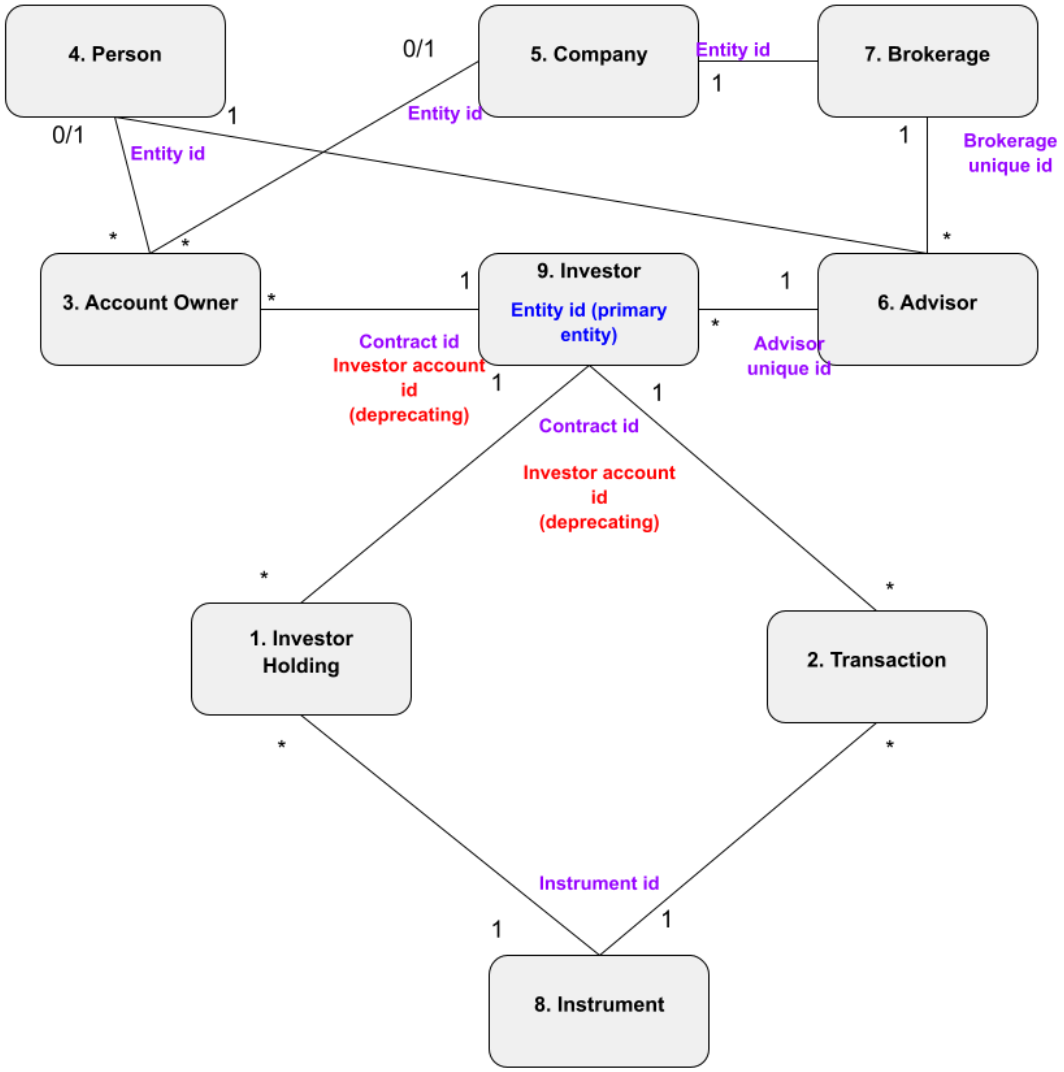
• Account owner (Refer to 3 Get account owner) is a link table, linking the Entity details as outlined above (Person or a Company) and the account details via the identifier "Investor account id" to the Investor details (Refer to 9 Get investor)

• By using the above a report can now be created for the Investor holdings on a date (Refer to 1 Get investor holdings) or creating a list of transaction (Refer to 2 Get partner transactions)

• Client Account number = "Instrument account number” (Refer to 2 Get partner transactions)

• Investment Number = "Account number" (Refer to 9 Get investor)

Outlined below is the call and the linked fields



1 Get investor holdings

GET: holdings?date={date}

Example request:

http://development/api/partners/holdings?date=2005-05-13

Note: Date must be ISO format string YYYY-MM-DD

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Contract id": 928800284,
         "Contract number": "POL3",
         "Client account id": 17219585793,
         "Date": "2024-01-26",
         "Instrument id" : 729260825,
         "Instrument grouping" : “Public”,
         "Instrument Name" : "Coronation Balanced Fund",
         "Instrument code": "COR01",
         "Accrued fees": {
            "currency": "ZAR",
            "type": "Money",
            "value": "80.49"
         },
         "Instrument account number": "3321423",
         "Units" : {
            "value" : 992.0,
            "Instrument id" : 729260825,
            "type" : "Unit"
         },
         "Price date" : "2005-05-13",
```

```
            "Market Value in Fund Currency" : {
                "currency" : "ZAR",
                "value" : 992.0,
                "type" : "Money"
            },
            "Latest available price" : {
                "value" : 1.0,
                "currency" : "ZAR",
                "Instrument id" : 729260825,
                "type" : "Price"
            },
            "Market Value in System Currency" : {
                "currency" : "ZAR",
                "value" : 992.1,
                "type" : "Money"
            }
        }
    ],
    "size" : 1
}
```


Error examples:

HTTP: 400


```
{
    "errors" : [
        {
            "description" : "Invalid date",
            "code" : "MalformedRequest"
        }
    ]
}
```

HTTP: 404

```
{
   "errors" : [
      {
         "description" : "Could not find a linked partner",
         "code" : "PartnerNotFound"
      }
   ]
}
```

2 Get partner transactions

GET: transactions (Pull all transactions)

GET: transactions?date={date} (Pull all transactions for a date)

Example request:

http://development/api/partners/transactions?date=2005-05-01

Note: Date must be ISO format string YYYY-MM-DD and will only include transactions that changed on this date

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Transaction id" : 657238272,
         "Contract id" : 465172736,
         "Client account id": 22433209723,
         "Instrument id" : 751751424,
         "Instrument account number" : “3321423”,
         "Instrument code": "COR01",
         "Date" : "2005-05-20",
         “Processed date" : “2005-05-20”,
         "Description" : "Buy (Once Off Investment)",
         "Type group" : "",
         "Amount" : {
            "currency" : "ZAR",
            "value" : 992.0,
            "type" : "Money"
         },
         "Price" : {
               "value" : 1.0,
               "currency" : "ZAR",
               "Instrument id" : 751751424,
```

```
            "type" : "Price"
         },
         "Units" : {
            "value" : 992.0,
            "Instrument id" : 751751424,
            "type" : "Unit"
         },
      "Created by" : "fadmin (finworks admin)",
   }
],
"size" : 1
}
```


Error examples:

HTTP: 400


```
{
   "errors" : [
      {
         "description" : "Invalid date",
         "code" : "MalformedRequest"
      }
   ]
}
```

3 Get account owners

GET: account-owners

Example request:

http://development/api/partners/account-owners

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Entity id" : 517068032,
         "Contract id" : 645656832,
         "Unique identification number" : "570369792"
      }
   ],
   "size" : 1
}
```

4 Get persons

GET: persons

Example request:

http://development/api/partners/persons

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Email" : "lili@finworks.biz",
         "Entity id" : 1071096064,
         "Firstname" : "liliana",
         "ID Number" : "6611235090089",
         "Initials" : "l",
         "Surname" : "ivan"
         "Title" : null,
         "Client Number": "123"
         }
           ],
   "size" : 1
}
```

5 Get companies

GET: companies

Example request:

http://development/api/partners/companies

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Company Name" : "FINWorks (Pty) Ltd",
         "Company Registration Number" : "finworks",
         "Entity id" : 418217216,
         "Client Number": "123"
      }
            ],
   "size" : 1
}
```

6 Get advisers

GET: advisers

Example request:

http://development/api/partners/advisers

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Adviser Code" : "AGFSPB",
         "Adviser Unique id" : 398283520,
         "Brokerage Unique id" : 544989952,
         "Name" : "Adviser Default"
      }
   ],
   "size" : 1
}
```

7 Get brokerages

GET: brokerages

Example request:

http://development/api/partners/brokerages

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Brokerage Unique id" : 591800576,
         "Code" : "000000",
         "Name" : "Broker Default"
      }
   ],
   "size" : 1
}
```

8 Get instruments

GET: instruments

Example request:

http://development/api/partners/instruments

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Bloomberg Ticker" : "",
         "Class" : "UnitisedInstrument",
         "Code" : "COR01",
         "Currency" : "ZAR",
         "ISIN Number" : "",
         "Instrument id" : 927549696,
         "Instrument provider" : "Coronation",
         "Instrument provider unique id": “”,
         "Instrument type" : "Unit Trust",
         "Instrument grouping": "Public",
         "Morningstar SECID" : "",
         "Name" : "Coronation Balanced Fund",
         "Overriden dealer" : null,
         "Overriden dealer unique id": “”,
         "Sedol Identifier" : "",
         "Status" : "Open"
      }
   ],
   "size" : 1
}
```

9 Get investor

GET: investors (Pull investors with investment value as of today)

GET: investors?date={date} (Pull investors with investment value at date specified)

Example request:

http://development/api/partners/investors?date=2005-05-02

Note: Date must be ISO format string YYYY-MM-DD.

Example JSON response:

HTTP: 200


```
{
   "data" : [
      {
         "Contract number" : "POL3",
         "Adviser Unique id" : 54252288,
         "Contract id" : 771942656,
         "Investment value" : {
            "currency" : "ZAR",
            "value" : 992.0,
            "type" : "Money
         },
         "Modelportfolio" : ""
   ],
   "size" : 1
}
```