

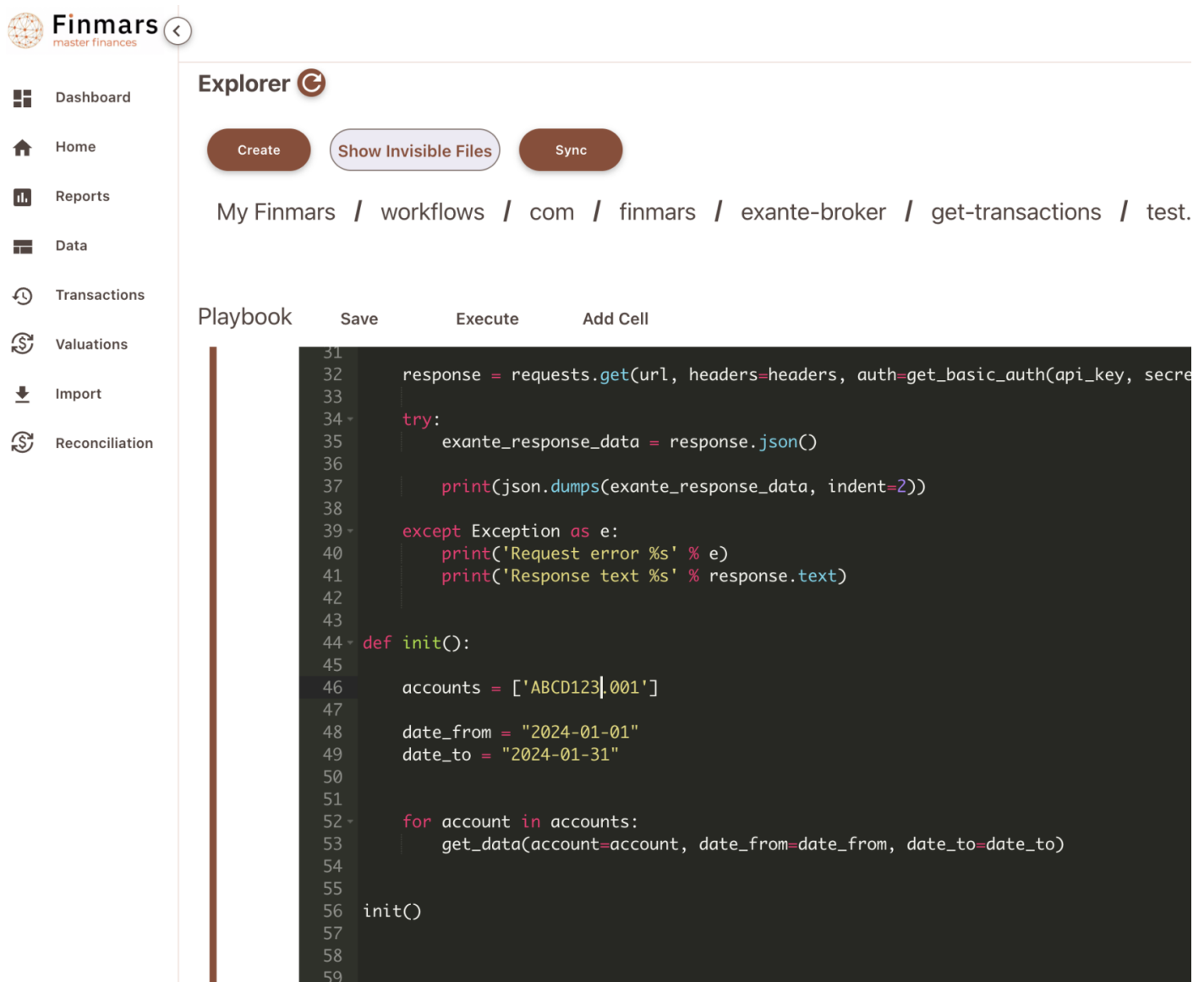
Importing Transactions

- [Try to get Transactions from Exante](#)
- [Download Transactions to Finmars](#)
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- [Standard Workflow Transaction Autoimport](#)

Try to get Transactions from Exante

Go to `/explorer/workflows/com/finmars/exante-broker/get-transactions/test.ipynb`

And configure your script











The screenshot shows the Finmars Explorer interface. On the left is a navigation menu with items: Dashboard, Home, Reports, Data, Transactions, Valuations, Import, and Reconciliation. The main area is titled 'Explorer' and contains buttons for 'Create', 'Show Invisible Files', and 'Sync'. Below these is a breadcrumb path: 'My Finmars / workflows / com / finmars / exante-broker / get-transactions / test.'. Underneath the path are buttons for 'Playbook', 'Save', 'Execute', and 'Add Cell'. The main content is a code editor with a dark background, showing a Python script with line numbers 31 to 59. The script uses the requests library to fetch data from Exante, handles exceptions, and defines an init function with specific account and date parameters.

```
31
32 response = requests.get(url, headers=headers, auth=get_basic_auth(api_key, secre
33
34 try:
35     exante_response_data = response.json()
36
37     print(json.dumps(exante_response_data, indent=2))
38
39 except Exception as e:
40     print('Request error %s' % e)
41     print('Response text %s' % response.text)
42
43
44 def init():
45
46     accounts = ['ABCD123|001']
47
48     date_from = "2024-01-01"
49     date_to = "2024-01-31"
50
51
52 for account in accounts:
53     get_data(account=account, date_from=date_from, date_to=date_to)
54
55
56 init()
57
58
59
```

Set accounts (line 46) and date_from (line 48) and date_to (line 49)

Then try to execute it!

-  Dashboard
-  Home
-  Reports
-  Data
-  Transactions
-  Valuations
-  Import
-  Reconciliation

Explorer

[Create](#) [Show Invisible Files](#) [Sync](#)

My Finmars / workflows / com / finmars / exante-broke

Playbook [Save](#) [Execute](#) [Add Cell](#)

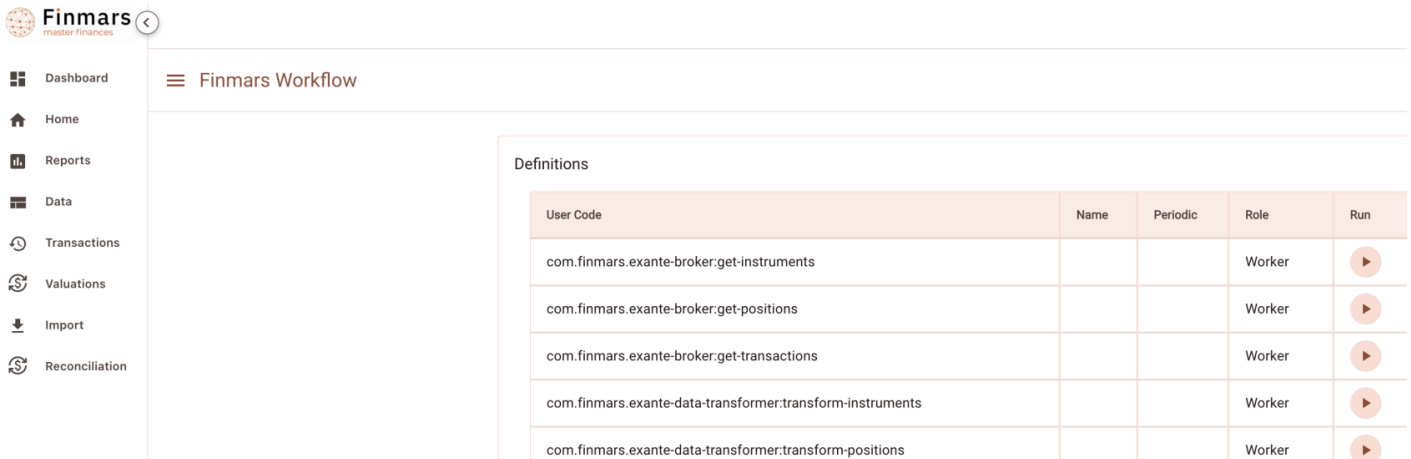
```
47
48     date_from = "2024-01-01"
49     date_to = "2024-01-31"
50
51
52     for account in accounts:
53         get_data(account=account, date_from=date_from, date_to=date_to)
54
55
56     init()
```

```
[
  {
    "symbolId": null,
    "timestamp": 1706087924641,
    "uuid": "0722a187-b41e-43c1-9749-b595f2714db",
    "orderPos": null,
    "accountId": "ABCD1234.001",
    "valueDate": "2024-01-24",
    "id": 535506450,
    "sum": "299972.31",
    "orderId": null,
    "operationType": "FUNDING/WITHDRAWAL",
    "parentUuid": null,
    "asset": "USD"
  },
]
```

Great success! Now you could inspect responses from Exante Broker

Download Transactions to Finmars

Go to Workflow Page



The screenshot shows the Finmars Workflow page. On the left is a navigation menu with icons and labels for Dashboard, Home, Reports, Data, Transactions, Valuations, Import, and Reconciliation. The main content area is titled 'Finmars Workflow' and contains a 'Definitions' table.

User Code	Name	Periodic	Role	Run
com.finmars.exante-broker.get-instruments			Worker	▶
com.finmars.exante-broker.get-positions			Worker	▶
com.finmars.exante-broker.get-transactions			Worker	▶
com.finmars.exante-data-transformer.transform-instruments			Worker	▶
com.finmars.exante-data-transformer.transform-positions			Worker	▶

Execute workflow `com.finmars.exante-broker:get-transactions`

```
{  
  "secret": "finmars/exante",  
  "date_from": "2024-01-01",  
  "date_to": "2024-09-27",  
  "currencies": ["USD"],  
  "portfolios": ["ABCD1234.001"]  
}
```

Definitions

User Code	Name	Periodic	Role	Run
com.finmars.exante-broker:get-instruments			Worker	▶
com.finmars.exante-broker:get-positions			Worker	▶
com.finmars.exante-broker:get-transactions				▶
com.finmars.exante-data-transformer				▶
com.finmars.exante-data-transformer				▶
com.finmars.standard-workflow:calc				▶
com.finmars.standard-workflow:calc				▶
com.finmars.standard-workflow:coll				▶
com.finmars.standard-workflow:com				▶
com.finmars.standard-workflow:dow				▶
com.finmars.standard-workflow:dow				▶
com.finmars.standard-workflow:dow				▶
com.finmars.standard-workflow:download-exante-positions			Worker	▶

Payload Information

You are about to run workflow `com.finmars.exante-broker:get-transactions`

(optional) Fill the payload here :









```
{  
  "secret": "finmars/exante",  
  "date_from": "2024-09-01",  
  "date_to": "2024-09-24",  
  "portfolios": ["ABCD123,001"]  
}
```

CLOSE RUN

Go to see status of your workflow

The screenshot shows the Finmars Workflow interface. On the left is a navigation menu with items: Dashboard, Home, Reports, Data, Transactions, Valuations, Import, and Reconciliation. The main area displays the workflow 'com.finmars.exante-broker:get-transactions.task' with a 'success' status. On the right, a detailed view of the task is shown, including a timestamp '2024-09-27 21:49:10 +02:00', a 'success' badge, and a summary 'Tasks: Total 1 / Success 1 / Error 0'. Below this is a 'Task' table with fields: ID (102), Key (com.finmars.exante-broker:get-transactions.task), Task Status (success), Created (2024-09-27 21:49:10 +02:00), and Updated. A 'Log' section shows a message: 'Portfolio ABCD123.001 for 2024-09-01_2024-09-24 is downloaded'. A 'Result' section shows a JSON object: {'message': 'Task finished successfully. No results returned'}








Great success! You can find your downloaded instrument in `/explorer/data/exante/transactions`

-  Dashboard
-  Home
-  Reports
-  Data
-  Transactions
-  Valuations
-  Import
-  Reconciliation

Explorer

[Create](#) [Show Invisible Files](#) [Sync](#)

My Finmars / data / exante / transactions / ABCD1234.001

Search for a ...	
<input type="checkbox"/> Name	Path
<input type="checkbox"/>  2024-09-24.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-23.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-22.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-21.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-20.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-19.json	data/exante/transactions/PNN1218.001
<input type="checkbox"/>  2024-09-18.json	data/exante/transactions/PNN1218.001

Example of content:

```
[
  {
    "symbolId": "VCIT.NASDAQ",
    "timestamp": 1725510299999,
    "uuid": "000000000-4bf9-4766-8ac2-12ff79ded491",
    "orderPos": null,
    "accountId": "ABCD123.001",
    "valueDate": "2024-09-05",
    "id": 000000000,
    "sum": "166.46",
    "orderId": null,
    "operationType": "DIVIDEND",
    "parentUuid": null,
    "asset": "USD"
  },
  {
    "symbolId": "VCIT.NASDAQ",
```

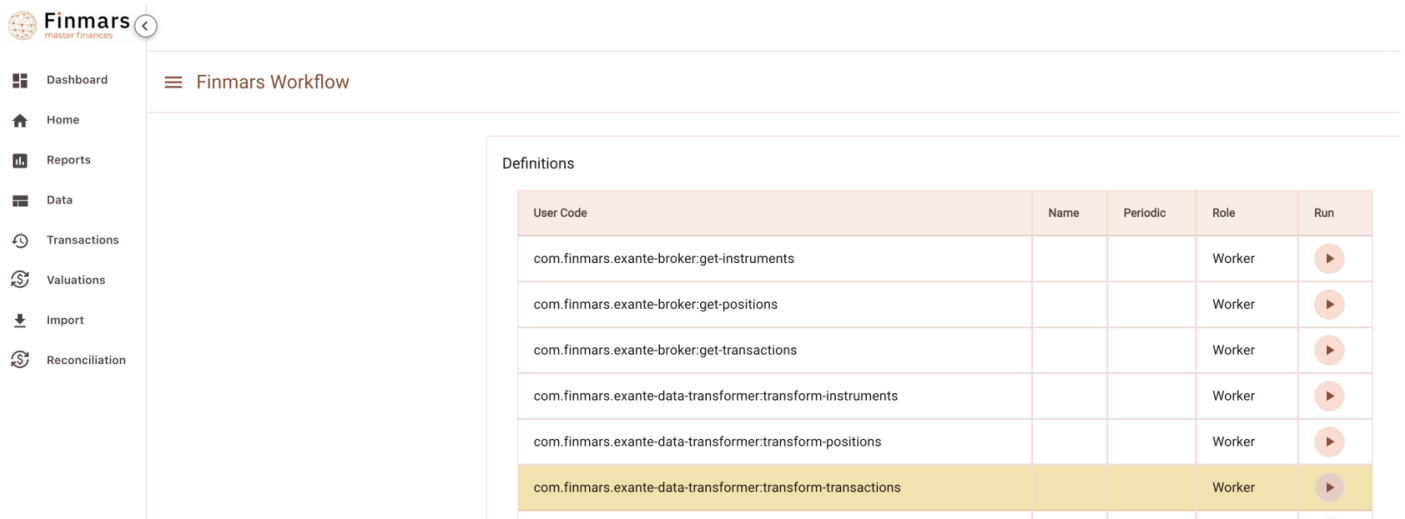
```
"timestamp": 1725510299999,  
"uuid": "000000000-118b-4182-be13-a2e94d0772e9",  
"orderPos": null,  
"accountId": "ABCD123.001",  
"valueDate": "2024-09-05",  
"id": 000000000,  
"sum": "-49.94",  
"orderId": null,  
"operationType": "US TAX",  
"parentUuid": null,  
"asset": "USD"  
}  
]
```

Now see `com.finmars.exante-data-transformer`, it should have Transaction transformer to Finmars Standard Configuration

Transform Transactions to Standard Configuration

Precondition: You downloaded some Transactions from Exante (Check your `/explorer/data/exante/transactions` folder)

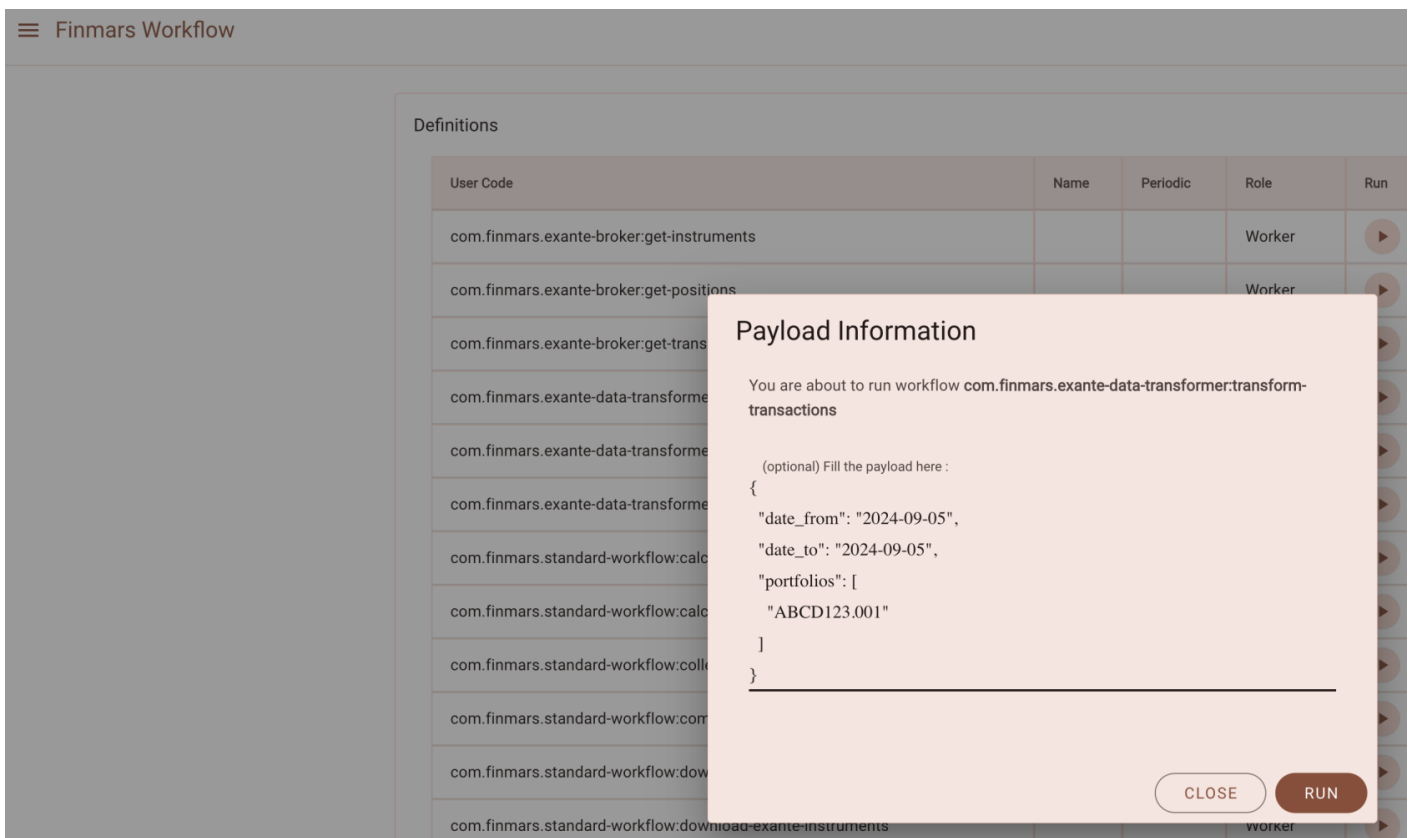
Go to Workflow Page



The screenshot shows the Finmars Workflow interface. On the left is a navigation menu with items: Dashboard, Home, Reports, Data, Transactions, Valuations, Import, and Reconciliation. The main area is titled 'Finmars Workflow' and contains a 'Definitions' table.

User Code	Name	Periodic	Role	Run
com.finmars.exante-broker.get-instruments			Worker	▶
com.finmars.exante-broker.get-positions			Worker	▶
com.finmars.exante-broker.get-transactions			Worker	▶
com.finmars.exante-data-transformer.transform-instruments			Worker	▶
com.finmars.exante-data-transformer.transform-positions			Worker	▶
com.finmars.exante-data-transformer.transform-transactions			Worker	▶

Run Task `com.finmars.exante-data-transformer:transform-transactions`



The screenshot shows the same Finmars Workflow interface as above, but with a 'Payload Information' dialog box open over the 'Definitions' table. The dialog box contains the following text:

Payload Information

You are about to run workflow `com.finmars.exante-data-transformer:transform-transactions`

(optional) Fill the payload here :

```
{
  "date_from": "2024-09-05",
  "date_to": "2024-09-05",
  "portfolios": [
    "ABCD123.001"
  ]
}
```

At the bottom of the dialog box, there are two buttons: 'CLOSE' and 'RUN'.

Go to see you Task Status

The screenshot shows the 'Finmars Workflow' interface. On the left is a navigation menu with items: Dashboard, Home, Reports, Data, Transactions, Valuations, Import, Reconciliation, Journal, and Settings. The main area displays a task execution log for the command 'com.finmars.exante-data-transformer.transform-transactions.ta'. The log shows a 'success' status. On the right, a 'Task' details panel shows the following information:

ID	112
Key	com.finmars.exante-data-transformer.transform-transactions.task
Task Status	success
Created	2024-09-27 23:14:58 +02:00
Updated	

Below the task details is a 'Log' section containing a JSON array of transaction data:

```

dates ['2024-09-05']
[{'symbolId': 'VCIT.NASDAQ', 'timestamp': 1725510200055, 'uuid': '1b7f5128-4bf9-4766-8ac2-12ff79ded4...'}]
symbolId VCIT.NASDAQ
instrument_user_code US92206C8709
exante_transaction {'symbolId': 'VCIT.NASDAQ', 'timestamp': 1725510200055, 'uuid': '1b7f5128-4bf9-47...'}
File /data/exante/transactions/[redacted]/2024-09-05.json processed successfully
symbolId VCIT.NASDAQ
instrument_user_code US92206C8709
exante_transaction {'symbolId': 'VCIT.NASDAQ', 'timestamp': 1725510200177, 'uuid': '1a0e1bc0-118b-41...'}
File /data/exante/transactions/[redacted]/2024-09-05.json processed successfully
symbolId BND.NASDAQ
instrument_user_code US9219378356
exante_transaction {'symbolId': 'BND.NASDAQ', 'timestamp': 1725510258444, 'uuid': '81b3c13a-54dd-476...'}

```

A 'Result' section is also visible at the bottom of the task details.

So all your downloaded Transactions files from Exante should be packed into one .json file that converted to Standard Configuration

You shall able to see it in

`/explorer/data/general/transactions`

data/general - is a folder where data accumulates from all the sources, we keep transformed data there

The screenshot shows the 'Finmars Explorer' interface. The left navigation menu is the same as in the first screenshot. The main area is titled 'Explorer' and shows the path 'My Finmars / data / general / transactions'. There are three buttons: 'Create', 'Show Invisible Files', and 'Sync'. Below the path is a search bar and a table listing files:

<input type="checkbox"/>	Name	Path
<input type="checkbox"/>	exante_abcd1234_001_2024-09-05_2024-09-05.json	data/general/tran
<input type="checkbox"/>	exante_abcd1234_001_2024-09-01_2024-09-02.json	data/general/tran

Example Content

```
[
  {
    "source_origin": "exante",
    "source": "Exante",
    "account_cash": "ABCD1234.001",
    "account_cash_to": "-",
    "account_interim": "-",
    "account_position": "ABCD1234.001",
    "account_position_to": "-",
    "accrued_price": "-",
    "accrued_price_multiplier": 1,
    "allocation_pl": "-",
    "broker_fee_with_sign": 0,
    "carry_with_sign": 166.46,
    "cash_consideration_with_sign": 166.46,
    "cash_movement_fx_adjusted": 0,
    "charges_with_sign": 0,
    "commission_with_sign": 0,
    "counterparty": "-",
    "date_accounting": "2024-09-05",
    "date_change": "2024-09-05",
    "factor": 1,
    "fees_with_sign": 0,
    "forward_buy_leg": "-",
    "forward_sell_leg": "-",
    "fx_account_buy": "-",
    "fx_account_sell": "-",
    "fx_amount_buy": "-",
    "fx_amount_sell": "-",
    "fx_currency_buy": "-",
    "fx_currency_sell": "-",
    "fx_rate": 1,
    "fx_rate_reverse": 1,
    "if_reverse": "-",
    "instrument": "US92206C8709",
    "is_canceled": false,
    "isin_code": "-",
  }
]
```

```
"linked_instrument": "-",
"notes": "DIVIDEND",
"notes_front_office": "-",
"notes_middle_office": "-",
"other_charges_with_sign": 0,
"portfolio": "ABCD1234.001",
"portfolio_to": "-",
"position_adjusted_with_sign": 0,
"position_nominal_with_sign": 0,
"pricing_currency": "USD",
"principal_price": 0,
"principal_price_multiplier": 1,
"principal_with_sign": 0,
"ref_tr_code": "-",
"responsible": "-",
"selector": "Dividend",
"settlement_currency": "USD",
"stamp_duty_with_sign": 0,
"strategy1": "-",
"sub_type": "-",
"tax_with_sign": 0,
"tax_withholding_with_sign": 0,
"trade_date": "2024-09-05",
"trade_price": 0,
"transaction_code": "1b7f5128-4bf9-4766-8ac2-12ff79ded491",
"value_date": "2024-09-05",
"vat_with_sign": 0
}
```

```
]
```

Great, so this file will be dispatched to Standard Import (see schema `com.finmars.standard-import-from-file:txn`) STD - TXN

P.S. Before we able to import Transactions, we must ensure that all Instruments/Currencies already present in Space. So after it, you free to import file either manually or via Standard AutoImport Schedule

Standard Workflow Transaction Autoimport

So far we have:

Exante Instruments
Exante Positions
Exante Transactions

We assume that there is no exotic currencies (then you need Exante Currencies)

All these data converted to Standard Configuration. So we should be able to Import them!

Before creating an automation, lets try to do it manually

So, for that we will use `/explorer/workflows/com/finmars/standard-workflow/simple-autoimport/tasks.py`

its a relatively simple workflow that could import either data or transactions. Its payload structure is:

So you add any number of steps (Depends of your situation). Order is matter! Here for example we import Instruments and then only Positions

`directory` - optional: path to directory in explorer with files to import, trailing slash is important (/ on end)

`file_path` - optional: path to some file in explorer with data to import

`import_type` - required: "data" for Simple Import, "transaction" for Transaction Import

`schema` - required: user_code of schema to execute

Nota bene: Both `directory` and `file_path` are optional, but one must be present

If you pass `directory` it will tries to join all files in that directory into one file (List of Dictionaries)

So, lets try it out!

Go to Workflows Page and lets find `com.finmars.standard-workflow:simple-autoimport`

```

{
  "actions": [
    {
      "directory": "/data/general/instruments/",
      "import_type": "data",
      "schema": "com.finmars.standard-import-from-file:instruments.instrument:instruments"
    },
    {
      "file": "/data/general/transactions/exante_abcd1234_001_2024-09-05_2024-09-05.json",
      "import_type": "transaction",
      "schema": "com.finmars.standard-import-from-file:txn"
    }
  ]
}

```



- Dashboard
- Home
- Reports
- Data
- Transactions
- Valuations
- Import
- Reconciliation

Finmars Workflow

com.finmars.standard-workflow.get-files-inputs			worker	
com.finmars.standard-workflow.get-files-states			Worker	
com.finmars.standard-workflow.import-currency-from-unified-db			Worker	
com.finmars.standard-workflow.import-from-file			Worker	
com.finmars.standard-workflow.import-fx-rate-from-unified-db			Worker	
com.finmars.standard-workflow.import-instrument-from-unified-db			Worker	
com.finmars.standard-workflow.import-prices-from-unified-db			Worker	
com.finmars.standard-workflow.init			Worker	
com.finmars.standard-workflow.initial-data			Worker	
com.finmars.standard-workflow.preprocess-exante-fx-rates			Worker	
com.finmars.standard-workflow.preprocess-exante-instruments			Worker	
com.finmars.standard-workflow.preprocess-exante-positions			Worker	
com.finmars.standard-workflow.preprocess-exante-prices			Worker	
com.finmars.standard-workflow.preprocess-exante-transactions			Worker	
com.finmars.standard-workflow.preprocess-finmars-db-fx-rates			Worker	
com.finmars.standard-workflow.roll-price			Worker	
com.finmars.standard-workflow.simple-autoimport			Worker	
com.finmars.standard-workflow.sync-files			Worker	
com.finmars.standard-workflow.workflow-manager		* / 1 ***** ●	Manager	

Lets execute it!

Finmars Workflow

com.finmars.standard-workflow:get-files-inputs	worker	▶
com.finmars.standard-workflow:get-files-states	Worker	▶
com.finmars.standard-workflow:import-currency-from-unified-db	Worker	▶
com.finmars.standard-workflow:import-from-file	Worker	▶
com.finmars.standard-workflow:imp		▶
com.finmars.standard-workflow:imp		▶
com.finmars.standard-workflow:imp		▶
com.finmars.standard-workflow:init		▶
com.finmars.standard-workflow:init		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:prep		▶
com.finmars.standard-workflow:roll-price	Worker	▶
com.finmars.standard-workflow:simple-autoimport	Worker	▶
com.finmars.standard-workflow:sync-files	Worker	▶
com.finmars.standard-workflow:workflow-manager	Manager	▶

Payload Information

You are about to run workflow `com.finmars.standard-workflow:simple-autoimport`

(optional) Fill the payload here :

```
{
  "actions": [
    {
      "file_path": "/data/general/transactions/exante_pnn1218_001_2024-09-05_2024-09-05.json",
      "import_type": "transaction",
      "schema": "com.finmars.standard-import-from-file:txn"
    }
  ]
}
```

CLOSE RUN

Go to see your Task Status

Finmars master finances

Dashboard | Home | Reports | Data | Transactions | Valuations | Import | Reconciliation

Finmars Workflow

com.finmars.standard-workflow:simple-autoimport.ta
SUCCESS

2024-09-28 01:06:46 +02:00

SUCCESS

Tasks: Total 1 / Success 1 / Error 0

Task

ID	114
Key	com.finmars.standard-workflow:simple-autoimport.task
Task Status	SUCCESS
Created	2024-09-28 01:06:46 +02:00
Updated	

Log

```
Task execution is finished
{'id': 118, 'member': 1, 'parent': None, 'children': [], 'type': 'Simple Autoimport is finished'}
```

Result

```
{
  "message": "Task finished successfully. No results returned"
}
```

Okay, so far we Imported only Instruments, let see (Go to Transactions / Transactions)

The screenshot shows the Finmars Transactions interface. The top navigation bar includes the Finmars logo, the page title 'Transactions: Transactions', an 'Autosave' indicator, and user profile information. A sidebar on the left lists navigation options: Dashboard, Home, Reports, Data, Transactions, Valuations, Import, and Reconciliation. The main content area features a search bar and an 'ADD FILTER' button. Below this is a table with columns for Group, TXN ID, Date, Source, Date (Trade), Date (Value), TXN TYPE, CCY STL, Cash Considerati..., Instrument, ISIN, and Position (Adjust). The table displays three rows of transaction data, all from 'Exante' on '2024-09-2' with 'Dividend' type and 'USD' currency. The first row has TXN ID '1b7f5128-4bf' and instrument 'VCIT.NASDAQ'. The second row has TXN ID '81b3c13a-54' and instrument 'BND.NASDAQ'. The third row has TXN ID 'b1b70e80-04' and instrument 'CORP.ARCA'. A 'Groups' panel on the left shows a tree view with 'Dividend (3)' selected, and '(3 of 3)' items are visible in the main table.

Groups	TXN ID	Date	Source	Date (Trade)	Date (Value)	TXN TYPE	CCY STL	Cash Considerati...	Instrument	ISIN	Position (Adjust)
██████████ (6)	1b7f5128-4bf	2024-09-2	Exante	2024-09-0	2024-09-0	Dividend	USD	166.46	VCIT.NASDAQ		-
Dividend (3)	81b3c13a-54	2024-09-2	Exante	2024-09-0	2024-09-0	Dividend	USD	1'276.21	BND.NASDAQ		-
Expense (Instrument) (...)	b1b70e80-04	2024-09-2	Exante	2024-09-0	2024-09-0	Dividend	USD	936.00	CORP.ARCA		-

Great success! We imported all the Transactions from files that we previously downloaded from Exante