

## DNEXT API - Code Example - Download a tradeMatrix

Below is a code snippet that can be used to download a tradeflow using the dnnext API:

```
1 import requests
2 import pandas as pd
3 from io import BytesIO
4 import time
5 import json
6
7
8 def _get_task_status(task_id, token):
9     my_headers = {
10         'Authorization': 'Bearer ' + token,
11         'Content-Type': 'application/json'
12     }
13
14     success = False
15     wait_time = 2
16
17     while not success and wait_time < 30:
18         time.sleep(wait_time)
19
20         status_res =
21         requests.get(f'https://api.dnnext.io/v1.0/tasks/{task_id}', headers=my_headers)
22
23         try:
24             success = status_res.json()['status'] == 'SUCCEEDED'
25         except:
26             wait_time += 1
27             continue
28
29         if not success:
30             wait_time += 1
31
32     if success:
33         return True
34     else:
35         return False
36
37 def download_tradeflow(code, token):
38
39     my_headers = {
40         'Authorization': 'Bearer ' + token,
41         'Content-Type': 'application/json'
42     }
43
44     data = {
45         'intraflows': {
46             'strategy': 'include', # "include" or "exclude" the intraflows
47         },
48         'forecasts': {
49             'strategy': 'include', # "include" or "exclude" the intraflows
50             'list': ["forecast_code"] # List of Forecasts loaded in the tradematrix Order by priority
51         },
52         'row': True,
53         'refresh': False,
54         'format': 'csv',
55     }
```

```

57     dl_url =
58         f'https://api.dnext.io/v1.0/fundamentals/tradeflows/{code}/download'
59
60     res = requests.post(dl_url, headers=my_headers,
61                         data=json.dumps(data))
62
63     task_id = res.json()['task']['id']
64
65     data_ready = _get_task_status(task_id, token)
66
67     if data_ready:
68         data_url = res.json()['result']['url']
69         data_resp = requests.get(data_url)
70         df = pd.read_csv(BytesIO(data_resp.content))
71
72     else:
73         df = None
74
75
76 df = download_tradeflow(<tradeflow_code>, <your_token>)

```

you can fetch the TradeMatrix code from the url directly



or from the “Code” column in the list of TradeMatrixes

you can fetch the forecast code from the TradeMatrix by following these steps :

1. click on the forecast button on the top right menu in the TradeMatrix
2. click on “Load”

Group	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
2013/14	12428	8309	11071	3676	14344	13396	8982	8973	10944	11066	9887	8554
2014/15	12478	9460	12192	9101	10311	12190	8075	8075	12311	10568	9798	10451
2015/16	12507	10007	11308	9033	10719	12095	9998	11783	11080	10568	11748	10910
2016/17	12441	11715	9986	7241	10996	11710	9996	8810	13567	11736	11058	13730
2017/18	12440	12942	14247	9711	11860	12237	12142	12142	12123	12123	12123	12122
2018/19	12538	12320	13268	10311	14459	14385	13540	11006	13869	14031	14737	17126
2019/20	12446	12729	15164	12460	14402	12121	11953	10999	13823	14330	13412	13469
2020/21	12443	12941	14247	12142	14247	12142	12142	12142	12142	12142	12142	12142
2021/22	10982	12199	14199	16159	17150	16170	14261	14261	14261	15204	14087	17757
2022/23	11140	15528	14146	12409	14049	17881	13399	12459	13921	11616	13449	18345
2023/24	10416	15309	15198	14451	17289	15198	15198	15198	15198	15198	15198	15198
2024/25	12148	15501	15754	15805	16307	15747	15714	13181	14416	14303	13118	16242
2025/26	16444	15719	18253	12785	17770	16796	13154	12333	15191	14629	14610	13464
2026/27	20153	17380	19349	18253	18253	18253	18253	18253	18253	18253	18253	17359
... CHN												
2013/14	1447	379	678	1020	892	770	302	40	40	77	72	85
2014/15	5905	36	435	18	622	572	355	171	281	404	810	1059
2015/16	2377	1	2	40	55	58	647	1000	701	57	57	57
2016/17	2308	1	3	70	13	212	89	2	11	37	671	647
2017/18	3108	4	12	6	519	197	94	134	513	889	457	532
2018/19	4300	3	5	1	511	270	249	479	749	487	482	505
2019/20	7795	64	141	1	857	431	398	269	838	589	1074	1082
2020/21	10219	12208	18868	18868	18868	12006	1777	1767	2194	3180	4106	3213
2021/22	10908	486	12208	18868	18868	12006	1777	1767	2194	3180	4106	3213
2022/23	11010	908	784	764	1362	3395	2187	872	1482	1387	2301	1434
2023/24	21105	6405	11308	11111	13475	11111	11111	11111	11111	11111	11111	11111
2024/25	12148	79	136	151	1699	216	6	881	1305	1370	1374	1375
2025/26	4116	513	797	756	607	757	150	150	240	190	150	8
2026/27	12407	640	1486	0	1666	1666	1666	1666	1666	1666	1666	1666
... ASIA												
2013/14	4521	155	230	0	430	452	334	342	350	286	264	140
2014/15	6420	336	404	613	703	749	557	395	529	550	366	365
2015/16	7944	573	764	967	882	774	732	573	469	312	118	419
2016/17	1948	692	739	639	749	739	348	158	1550	493	450	393
2017/18	9304	812	778	597	618	794	827	528	1033	809	882	677

3. Copy the code within the parentheses that comes after the forecast name in the right panel where the forecasts loaded into the trade matrix are displayed.

