



CMU OmniClear Website API Specification

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1. AMENDMENT SUMMARY

Effective Date	Section	Amendment
2023-02-08	3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9	Updated the Response Values (JSON) and Error Code Description
2024-04-22	3.5	Updated Output Fields (JSON)
2025-02-04	3.1 3.3 3.4 3.5	Updated Output Fields (JSON)
2025-11-06	3.1 3.2	Updated Output Fields (JSON)
2026-01-01	2.1 3	Renamed document name “CMU Website API Specification” as “CMU OmniClear Website API Specification” and updated all API URLs
2026-02-06	3.5 3.6	Updated Output Fields (JSON)

2. INTRODUCTION

2.1. Objectives

This document aims to provide CMU Participants and the public with an overview of information made available for API from the CMU OmniClear Website. It covers detailed API specification for different set of information to facilitate CMU Participants and the public to conveniently retrieve information from the Website.

2.2. Principle Users

- a. CMU Participants
- b. Public users

3. API SPECIFICATION

3.1. Member Search - CMU Members

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=8030

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209
records	To return matching results	"records": [{"cmu_mbr_code": "ABCI",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_mbr_code	Member Code	String	Size: 4 Example: "cmu_mbr_code": "ABCI"
cmu_mbr_name	Member Name	String	Size: 50 Example:

			"cmu_mbr_name": ABCI SECURITIES COMPANY LIMITED"
cmu_bond_connect	Subscription to Bond Connect Service ¹	String	Size: 1 Example: "cmu_bond_connect": "Y"
cmu_bid	Subscription to CMU BID ¹	String	Size: 1 Example: "cmu_bid": "Y"
cmu_repo_usrgrp	Subscription to Triparty Repo Service ¹	String	Size: 3 Example: "cmu_repo_usrgrp": "Y"
cmu_mcsd_linkage	Subscription to MCSD Linkage Service ¹	String	Size: 1 Example: "cmu_mcsd_linkage": "Y"

Footnotes:

1. "Y" – Yes
 "-" – Blank

API Examples

Javascript Example

```
$.ajax({
  url:
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type
  =8030',
  dataType:'json',
  success:function(data){
  alert('results found:'+ data.result.datasize)
  }
})
```

```
});
```

Python Example

```
import urllib.request

url =
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type
=8030'

with urllib.request.urlopen (url) as req:

    print (req.read())
```

3.2. Member Search - Market Makers and Recognised Dealers

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=8027

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209
records	To return matching results	"records": [{"cmu_mbr_code": "ABCI",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_mbr_code	Member Code	String	Size: 4 Example: "cmu_mbr_code": "ABOC"
cmu_mbr_name	Member Name	String	Size: 50 Example: "cmu_mbr_name": "AGRICULTURAL BANK OF CHINA LIMITED"
cmu_efb_role	Exchange Fund Bills ²	String	Size: 2 Example: "cmu_efb_role": "RD"
cmu_efn_role	Exchange Fund Notes ²	String	Size: 2 Example: "cmu_efn_role": "RD"
cmu_gb_role	HKSAR Government Bond ²	String	Size: 2 Example: "cmu_gb_role": "RD"
cmu_si_role	Specified Instruments ²	String	Size: 2 Example: "cmu_si_role": "RD"
cmu_efn_distributor	Retail Exchange Fund Notes Distributors ¹	String	Size: 1 Example: "cmu_efn_distributor": "y"

Footnotes:

1. "y" – Yes
"-" – Blank
2. RD – Recognised Dealers
MM – Market Maker

NA – Not Applicable
PD – Primary Dealer for Govt Bond

API Examples

Javascript Example

```
$.ajax({  
  
  url:  
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8072',  
  
  dataType:'json',  
  
  success:function(data){  
  
    alert('results found:'+ data.result.datasize)  
  
  }  
  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8027'  
  
with urllib.request.urlopen (url) as req:  
  
    print (req.read())
```

3.3. Securities Search - Exchange Fund Bills and Notes and Government Bonds

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=8025

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209
records	To return matching results	"records":[{"cmu_iss_num": "10Y2206",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_iss_num	Issue Number	String	Size: 11 Example: "cmu_iss_num": "02Y2208"
cmu_isin	ISIN	String	Size: 12 Example: "cmu_isin": "HK0000634664"
cmu_com_cod	Common Code	String	Size: 9

			Example: "cmu_com_cod": 221868919"
cmu_iss_mbr	Issuer	String	Size: 50 Example: "cmu_iss_mbr": "HONG KONG MONETARY AUTHORITY"
cmu_iss_des	Issue Description	String	Size: 40 Example: "cmu_iss_des": EFN 2 YEARS @0.1% 2022-08-22"
cmu_pay_agt	Paying Agent Code	String	Size: 4 Example: "cmu_pay_agt": "AAAA"
cmu_iss_date	Issue Date	Date	Size: 19 Example: "cmu_iss_date": "2020-08- 20"
cmu_mat_date	Maturity Date	Date	Size: 19 Example: "cmu_mat_date": "2022-08- 22"
cmu_iss_cur	Issue Currency	String	Size: 3 Example: "cmu_iss_cur": "HKD"
cmu_iss_siz	Issue Size	Number	Size: 20 Example: "cmu_iss_siz": 1200000000
cmu_out_amt	Outstanding Amount	Number	Size: 20 Example: "cmu_out_amt": 1200000000
cmu_cou_rat	Coupon Rate (%)	Number	Size: 11 Example: "cmu_cou_rat": 0.100000
cmu_las_pay	Last Coupon Date	Date	Size: 19

			Example: "cmu_las_pay": "2022-02-21"
cmu_ths_pay	Next Coupon Date	Date	Size: 19 Example: "cmu_ths_pay": "2022-08-22"
cmu_int_int	Int Pay. Freq. (Mths)	Number	Size: 3 Example: "cmu_int_int": 6
cmu_min_trdamt	Minimum Tradable Amount	Number	Size: 20 Example: "cmu_min_trdamt": 50000
cmu_mul_trdamt	Multiple Tradable Amount	Number	Size: 20 Example: "cmu_mul_trdamt": 50000
cmu_ci1_beareg_cde	Form	String	Size: 2 Example: "cmu_ci1_beareg_cde": "B"
cmu_hkd_rep	Repo Cat. HKD	String	Size: 1 Example: "cmu_hkd_rep": "A"
cmu_usd_rep	Repo Cat. USD	String	Size: 1 Example: "cmu_usd_rep": "L"
cmu_eur_rep	Repo Cat. EUR	String	Size: 1 Example: "cmu_eur_rep": "N"
cmu_cny_rep	Repo Cat. CNY CB	String	Size: 1 Example: "cmu_cny_rep": "P"
cmu_cny_rep_ma	Repo Cat. CNY MA	String	Size: 1 Example: "cmu_cny_rep_ma": "A"
cmu_hkdbnkrep_cat	Triparty Repo Cat	String	Size: 1 Example: "cmu_hkdbnkrep_cat": "A"

API Examples

Javascript Example

```
$.ajax({  
  url:  
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
  =8025',  
  dataType:'json',  
  success:function(data){  
    alert('results found:'+ data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8025'  
  
with urllib.request.urlopen (url) as req:  
    print (req.read())
```

3.4. Securities Search - Public and Private Sector Securities

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=8026

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209
records	To return matching results	"records":[{"cmu_iss_num": "ABOCFC21003",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_iss_num	Issue Number	String	Size: 11 Example: "cmu_iss_num": "ABOCFC21003"
cmu_isin	ISIN	String	Size: 12 Example: "cmu_isin": "HK0000707254"
cmu_com_cod	Common Code	String	Size: 9 Example: "cmu_com_cod": "231770348"

cmu_iss_mbr	Issuer	String	Size: 50 Example: "cmu_iss_mbr": "AGRICULTURAL BANK OF CHINA LIMITED"
cmu_iss_des	Issue Description	String	Size: 40 Example: "cmu_iss_des": "ABOC 0.4% 2023-03-16"
cmu_pay_agt	Paying Agent	String	Size: 4 Example: "cmu_pay_agt": "BOAK"
cmu_iss_date	Issue Date	Date	Size: 10 Example: "cmu_iss_date": "2021-03-16"
cmu_mat_date	Maturity Date	Date	Size: 10 Example: "cmu_mat_date": "2023-03-16"
cmu_iss_cur	Issue Currency	String	Size: 3 Example: "cmu_iss_cur": "HKD"
cmu_iss_siz	Issue Size	Number	Size: 18 Example: "cmu_iss_siz": 100000000
cmu_issoutstd_amt	Outstanding Amount	Number	Size: 18 Example: "cmu_issoutstd_amt": 100000000
cmu_cou_rat	Coupon Rate (%)	Number	Size: 11 Example: "cmu_cou_rat": 0.4
cmu_las_pay	Last Coupon Date	Date	Size: 10 Example: "cmu_las_pay": "2022-03-16"
cmu_ths_pay	Next Coupon Date	Date	Size: 10 Example: "cmu_ths_pay": "2023-03-16"
cmu_int_int	Int Pay. Freq. (Mths)	Number	Size: 3 Example: "cmu_int_int": 12

cmu_tenallw_ind	Tender Allowed ¹	String	Size: 1 Example: "cmu_tenallw_ind": "N"
cmu_incmdist_ind	Income Distribution ¹	String	Size: 1 Example: "cmu_incmdist_ind": "Y"
cmu_callopt_dte	Call / Put Option Date	Date	Size: 10 Example: "cmu_callopt_dte": "2020-10-12"
cmu_min_trdamt	Minimum Tradable Amount	Number	Size: 18 Example: "cmu_min_trdamt": 1000000
cmu_mul_trdamt	Multiple Tradable Amount	Number	Size: 18 Example: "cmu_mul_trdamt": 1000000
cmu_spe_date	Special Action Date	Date	Size: 10 Example: "cmu_spe_date": "20121-05-06"
cmu_spe_des	Special Action	String	Size: 40 Example: "cmu_spe_des": "EXCHANGED FROM TEMP TO PERM GLOBAL CERTS"
cmu_fatca_withld	Subject to FATCA Withholding	String	Size: 1 Example: "cmu_fatca_withld": "No"
cmu_ci1_beareg_cde	Form	String	Size: 1 Example: "cmu_ci1_beareg_cde": "B"
cmu_hkd_rep	Repo Cat. HKD	String	Size: 1 Example: "cmu_hkd_rep": "A"
cmu_usd_rep	Repo Cat. USD	String	Size: 1 Example: "cmu_usd_rep": "A"
cmu_eur_rep	Repo Cat. EUR	String	Size: 1 Example: "cmu_eur_rep": "N"
cmu_cny_rep	Repo Cat. CNY CB	String	Size: 1

			Example: "cmu_cny_rep": "P"
cmu_cny_rep_ma	Repo Cat. CNY MA	String	Size: 1
			Example: "cmu_cny_rep_ma": "A"
cmu_bnkrep_cat	Triparty Repo Cat	String	Size: 1
			Example: "cmu_bnkrep_cat": "A"

Footnotes:

1. "N" – No
"Y" – Yes

API Examples

Javascript Example

```
$.ajax({  
  url:  
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8026',  
  dataType: 'json',  
  success: function(data){  
    alert('results found: '+ data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8026'  
  
with urllib.request.urlopen (url) as req:  
  
    print (req.read())
```

3.5. Securities Search - Northbound Bond Connect Securities

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=8023

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209
records	To return matching results	"records":[{"cmu_csd_cde": "CDC",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_csd_cde	CSD Code	String	Size: 6 Example: "cmu_csd_cde": "CDC"
cmu_iss_num	CMU Issue Number	String	Size: 11 Example: "cmu_iss_num": "CD010221"
cmu_isin	ISIN	String	Size: 12 Example: "cmu_isin": "CND0000002K8"
cmu_loc_cde	Local Code	String	Size: 9

			Example: "cmu_loc_cde": "010221"
cmu_issr_nam	Issuer	String	Size: 30 Example: "cmu_issr_nam": "CHINA DEVELOPMENT BANK"
cmu_iss_des	Issue Description	String	Size: 40 Example: "cmu_iss_des": "01 CHINA DEVELOPMENT BANK BOND 21"
cmu_iss_dte	Issue Date	Date	Size: 10 Example: "cmu_iss_dte": "2001-10-23"
cmu_mat_dte	Maturity Date	Date	Size: 10 Example: "cmu_mat_dte": "2021-10-23"
cmu_iss_cury	Issue Currency	String	Size: 3 Example: "cmu_iss_cury": "CNY"
cmu_iss_siz	Issue size	Number	Size: 20 Example: "cmu_iss_siz": 16000000000
cmu_zro_coupcde	Zero Coupon ¹	String	Size: 3 Example: "cmu_zro_coupcde": "No"
cmu_cou_rat	Coupon Rate (%)	Number	Size: 9 Example: "cmu_cou_rat": 3.85
cmu_intstrdte_currperd	Interest Payment Start Date	Date	Size: 10 Example: "cmu_intstrdte_currperd": "2020-11-24"
cmu_intenddte_currperd	Interest Payment End Date	Date	Size: 10 Example: "cmu_intenddte_currperd": "2021-05-24"

cmu_ths_pay	Next Tentative Payment	Date	Size: 10 Example: "cmu_ths_pay": "2021-05-24"
cmu_pay_freqcde	Int. Pay. Freq. (Mths)	String	Size: 45 Example: "cmu_pay_freqcde": "Semi-annually"
cmu_hkd_rep	Repo Cat. HKD	String	Size: 1 Example: "cmu_hkd_rep": "A"
cmu_usd_rep	Repo Cat. USD	String	Size: 1 Example: "cmu_usd_rep": "A"
cmu_eur_rep	Repo Cat. EUR	String	Size: 1 Example: "cmu_eur_rep": "N"
cmu_cny_rep	Repo Cat. CNY CB	String	Size: 1 Example: "cmu_cny_rep": "P"
cmu_cny_rep_ma	Repo Cat. CNY MA	String	Size: 1 Example: "cmu_cny_rep_ma": "A"
cmu_bnkrep_cat	Triparty Repo Cat	String	Size: 1 Example: "cmu_bnkrep_cat": "A"
cmu_repo_cutoffdte	Repo Cutoff Date	Date	Size: 10 Example: "cmu_repo_cutoffdte": "2029-03-01"

Footnotes:

1. "Yes" – Yes
"No" – No

API Examples

Javascript Example

```
$.ajax({
  url:
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type
  =8023',
```

```
dataType:'json',  
success:function(data){  
alert('results found:'+ data.result.datasize)  
}  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type  
=8023'  
  
with urllib.request.urlopen (url) as req:  
  
print (req.read())
```

3.6. Securities Search – ICSD Linkage Securities

API URL:

https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=9006

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success": true
err_code	Return error code	"err_code": "0000"
err_msg	Return brief description	"err_msg": "No error found"
datasize	Return the number of records	"datasize": 209

records	To return matching results	"records":[{"cmu_csd_cde": "CS",.....}]
---------	----------------------------	--

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	Invalid input value: Parameter search_type is missing or invalid input

Output Fields (JSON)

Item	Description	Type	Note
cmu_csd_cde	CSD Code	String	Size: 3 Example: "cmu_csd_cde":"CS"
cmu_iss_num	CMU Issue Number	String	Size: 11 Example: "cmu_iss_num":"CS006337724"
cmu_isin	ISIN	String	Size: 12 Example: "cmu_isin":"US712219AC86"
cmu_com_cod	Common Code	String	Size: 9 Example: "cmu_com_cod":"006337724"
cmu_sec_nam	Issuer	String	Size: 40 Example: "cmu_sec_nam":"MINISTRY OF FINANCE OF THE PEO"
cmu_iss_des	Issuer Description	String	Size: 40 Example: "cmu_iss_des":"PEOPLES REP 9.00000 15/01/96"
cmu_iss_dte	Issue Date	Date	Size: 10 Example: "cmu_iss_dte":"1996-01-30"

cmu_iss_cury	Issue Currency	String	Size: 3 Example: "cmu_iss_cury": "USD"
cmu_repo_cutoffdte	Repo Cutoff Date	Date	Size: 10 Example: "cmu_repo_cutoffdte": "2029-03-01"

API Examples

Javascript Example

```
$.ajax({  
  url:  
  'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=9006',  
  dataType: 'json',  
  success: function(data){  
    alert('results found:' + data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/data_statistics_search.php?search_type=9006'  
  
with urllib.request.urlopen (url) as req:  
  print (req.read())
```

3.7. News & Events

API URL:

https://www.CMUOmniClear.com/api/news_and_events.php?lang=en (English)

https://www.CMUOmniClear.com/api/news_and_events.php?lang=tc (Traditional Chinese)

https://www.CMUOmniClear.com/api/news_and_events.php?lang=sc (Simplified Chinese)

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success":true
err_code	Return error code	"err_code":"0000"
err_msg	Return brief description	"err_msg":"No error found"
datasize	Return the number of records	"datasize":100
records	To return matching results	"records":[{"date":"2022-12-20",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	<ul style="list-style-type: none"> Invalid input value: Invalid input value: Parameter lang is missing or invalid input (en tc sc) Invalid input value: The field entered does not support sorting Invalid input value: Both 'from' and 'to' field must be entered

Request Parameter (Mandatory)

Item	Description
lang	To input the language selected to output Format: lang=(en tc sc)

	Example: lang=tc
--	------------------

Parameters (Optional)

Item	Description
sortby, sortorder	sortby: To input field name for sorting order sortorder: To input sequence of the sorting Format: sortby=field name(title link date)&sortorder=asc desc Example: sortby=date&sortorder=desc
choose,from,to	choose: To input field name for parameter “from” and “to” (result will be greater or equal to lower value to less than or equal to higher value) from: To input lower value which field is defined in number or date to: To input higher value which field is defined in number or date Format: column=field name&from=lower value&to=higher value Example: choose=date&from= 2022-12-12&to=2022-12-12

Output Fields (JSON)

Item	Description	Type	Note
date	Issue date	Date	Size: 10 Example: “date”: “2022-06-22”
link	URL for the news	String	Size: Text Example: “link”: “https://www.CMUOmniClear.com/en/news-and-events/id/4523”
title	News title	String	Size: 255 Example: “title”: “Other bonds”

API Examples

Javascript Example

```
$.ajax({  
  url: 'https://www.CMUOmniClear.com/api/news_and_events.php?lang=en',  
  dataType:'json',  
  success:function(data){  
    alert('results found:'+ data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url = 'https://www.CMUOmniClear.com/api/news_and_events.php?lang=en'  
  
with urllib.request.urlopen (url) as req:  
    print (req.read())
```

3.8. CMU Data & Statistics – Average Daily Turnover

API URL: https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=turnover

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success":true
err_code	Return error code	"err_code":"0000"
err_msg	Return brief description	"err_msg":"No error found"
datasize	Return the number of records	"datasize":36
records	To return matching results	"records":[{"month_value": "2022-08",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	<ul style="list-style-type: none"> Invalid input value: Parameter type is missing or invalid input (turnover outstanding) Invalid input value: Both 'start' and 'end' field must be entered

Output Fields (JSON)

Item	Description	Type	Note
month_value	Month	Date	Size: 7 Example: "month_value": "2021-06"
securities_value	Securities Issued by Public and Private Sectors (HK\$ million)	Number	Size: 20 Example: "securities_value":154351.83
bonds_value	Govt Bonds by HKSAR (HK\$ million)	Number	Size: 20 Example: "bonds_value ":42806.74

bills_value	Exchange Fund Bills and Notes (HK\$ million)	Number	Size: 20 Example: "bills_value":2360406.85
transactions_value	No. of Transactions	Number	Size: 20 Example: "transactions_value":6528.00

API Examples

Javascript Example

```
$.ajax({  
  url:  
  'https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=turnover',  
  dataType:'json',  
  success:function(data){  
    alert('results found:'+ data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=turnover'  
  
with urllib.request.urlopen (url) as req:  
  
    print (req.read())
```

3.9. CMU Data & Statistics – Outstanding Issues

API URL:

https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=outstanding

Response Values (JSON)

Response Field	Description	Example
success	Identify if JSON is returned success or not	"success":true
err_code	Return error code	"err_code":"0000"
err_msg	Return brief description	"err_msg":"No error found"
datasize	Return the number of records	"datasize":36
records	To return matching results	"records":[{"month_value": "2021-06",.....}]

Error Code Description

Error Code	Description
0000	No error found
1001	No result found
1002	<ul style="list-style-type: none"> Invalid input value: Parameter type is missing or invalid input (turnover outstanding) Invalid input value: Both 'start' and 'end' field must be entered

Output Fields (JSON)

Item	Description	Type	Note
month_value	Month	Date	Size: 7 Example: "month_value": "2021-06"
securities_value	Securities Issued by Public and Private Sectors (HK\$ million)	Number	Size: 20 Example: "securities_value": 843563.19

bonds_value	Govt Bonds by HKSAR (HK\$ million)	Number	Size: 20 Example: "bonds_value ":147309.44
bills_value	Exchange Fund Bills and Notes (HK\$ million)	Number	Size: 20 Example: "bills_value ":1044178.00
outstanding_value	No. of Outstanding Issues	Number	Size: 20 Example: "outstanding_value ":1298.00

API Examples

Javascript Example

```
$.ajax({  
  url:  
  'https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=outstanding',  
  dataType:'json',  
  success:function(data){  
    alert('results found:'+ data.result.datasize)  
  }  
});
```

Python Example

```
import urllib.request  
  
url =  
'https://www.CMUOmniClear.com/api/graphs_and_charts.php?type=outstanding'  
  
with urllib.request.urlopen (url) as req:  
  
    print (req.read())
```