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Bank of Japan

API User Manual for BOJ Time-Series Data Search

Content

I. Overview

The Bank of Japan provides the Application Programming Interface service for BOJ Time-Series Data Search (API). This API is available for use by anyone and enables users to retrieve time-series data in formats such as JSON and CSV.

This User Manual provides an overview of how to use the API. For important points to consider regarding the use of the API, please refer to the "Notice Regarding the Use of the API Service." [(a)]

(a) https://www.stat-search.boj.or.jp/info/api_notice_en.pdf

1. Types of APIs

The BOJ Time-Series Data Search provides three types of APIs, as listed below.

The type of data retrieved will vary depending on the settings specified under "Specified Conditions."

Type	Data Retrieved	Specified Conditions	Notes
/getDataCode	Time-Series Data	Series Code	-
/getDataLayer		Layer information	Layer information arrange the data series for individual databases (DBs) in a hierarchical tree structure.
/getMetadata	Metadata	DB Name	Metadata refers to information about the attributes of time-series data, such as series codes and series names. This Metadata can be utilized to create parameters for '/getDataCode' and '/getDataLayer.'

2. How to Request

Users of the API can specify their various conditions for the desired data as parameters in the request URL. The parameters may include the output file format (JSON or CSV) and language (Japanese or English).

Example URL

```
https://www.stat-search.boj.or.jp/api/v1/getDataCode?format=json&lang=en&db=CO
&startDate=202401&endDate=202504&code=TK99F1000601GCQ01000,TK99F20
00601GCQ01000
```

The API has a compression feature that compresses HTTP responses in gzip format to reduce data transmission size. When making requests using tools or programs, setting the "Accept-Encoding: gzip" header allows the server to automatically return the compressed data, enabling efficient data retrieval.

Caution: Excessive access frequency may result in a restriction of access. Please avoid excessive requests.

3. Scope of Accessible Data

Data provided on the BOJ Time-Series Data Search can be retrieved using the following three methods. The API provides users with access to all available data, similar to the search function via the search interface.

Data Retrieval Method	Scope of Accessible Data	Output File Format
API service	All data	JSON, CSV
Search using the search screen	All data	CSV, TXT
Flat Files Download	Selected statistics [(a)]	Compressed CSV (ZIP format)

(a) Prices, Flow of Funds, TANKAN, Balance of Payments, BIS-Related Statistics

4. Timing for Data Availability via API

The APIs, '/getDataCode' and '/getDataLayer', provide access to time-series data equivalent to that which can be retrieved through the search screen[(a)]. Additionally, the metadata files accessible via '/getMetadata' are updated regularly on a daily basis.

(a) On the BOJ Time-Series Data Search, time-series data are made available at around 8:50 a.m. The schedule is subject to change. For the release schedule of individual statistics, please refer to the "Schedule for Releases of Statistical Data." [(b)]

(b) https://www.boj.or.jp/en/statistics/outline/index.htm

5. API Request URL Tool

When creating request URLs for each API, it is recommended that users refer to this manual, along with the "API Request URL Tool"[(a)] as additional support.

(a) https://www.stat-search.boj.or.jp/info/api_tool.xlsx

II. Creating Request URLs

1. Structure of the Request URL

The structure of the request URL for each API is as follows. The API endpoint URL, which refers to the portion preceding "<Parameter>," is fixed and case-sensitive.

/getDataCode https://www.stat-search.boj.or.jp/api/v1/getDataCode?<Parameter>
/getDataLayer https://www.stat-search.boj.or.jp/api/v1/getDataLayer?<Parameter>
/getMetadata https://www.stat-search.boj.or.jp/api/v1/getMetadata?<Parameter>

2. Parameter Specification

When sending a request, each API requires parameters to be specified, as described in "<Parameter>" in "II.1. Structure of the Request URL."

To specify a parameter, combine the Parameter Name and its value using the equals "=," in the format "Parameter Name=value." If multiple parameters need to be specified, connect each parameter using the ampersand "&," as in "Parameter Name=value&Parameter Name=value&...." For detailed information on Parameter Names and values, please refer to "II.3. Explanation of Parameters."

Both Parameter Names and their values are case-insensitive. Additionally, when specifying multiple parameters, there is no specific order required for their arrangement.

/getDataCode	
Example Parameter	format=json&lang=en&db=CO&startDate=202401&endDate=202504&code=TK99F1000601GCQ01000,TK99F2000601GCQ01000
Explanation	format=File format &lang=Language&db=DB Name&startDate=Start Date&endDate=End Date&code=Series Code

/getDataLayer	
Example Parameter	lang=en&db=md10&frequency=q&layer=*&startPosition=255
Explanation	lang=Language&db=DB Name&frequency=Frequency&layer=Layer information&startPosition=Position to start the search from

/getMetadata	
Example Parameter	format=csv&lang=en&db=fm08
Explanation	format=File format&lang=Languege&db=DB Name

3. Explanation of Parameters

(1) Parameter

The parameters and their respective values available for each API are listed below. The Parameter Names are consistent across all APIs. However, please note that the required parameters may vary depending on the specific API.

Parameter Names	Parameter Settings	Parameter Values[a]	Parameter Requirement[b]		
			/getData Code	/getData Layer	/getMeta data
FORMAT	File format	JSON or CSV[c]	Optional If not specified, the output file will be generated in JSON format.		
LANG	Language	English: EN Japanese: JP	Optional If not specified, the output will be generated in Japanese.		
DB	DB Name	DB Name[d]	Required	Required	Required
CODE	Series Code	Series Code[e] Multiple series codes can be specified separated by commas ",". Only series codes of the same frequency can be specified.	Required	-	-
LAYER	Layer information	Layer information[f] Separate values using commas ",". Wildcards "*" are allowed.	-	Required	-
FREQUENCY	Frequency[g]	Calendar year: CY Fiscal year: FY Calendar half-year: CH Fiscal half-year: FH Quarter: Q, Monthly: M Weekly: W, Daily: D	-	Required	-
STARTDATE	Start Date[h]	Calendar year / Fiscal year: *YYYY format* Calendar half-year /Fiscal half-year: *YYYYHH format*[i] Quarter: *YYYYQQ format*[i] Monthly/Weekly/Daily[j]: *YYYYMM format*[i] Specify according to the frequency of the series codes.	Optional	Optional	-
ENDDATE	End Date[h]		Optional	Optional	-

STARTPOSITION	Position to start the search from(k)	Values must be greater than or equal to 1	Optional	Optional	-

(a) The following characters and full-width characters cannot be specified:

< > " ! | ¥ ; '

(b) "Required" refers to parameters that must be specified, while "Optional" refers to parameters that can be omitted. "-" cannot be specified.

(c) If an error occurs and the file cannot be generated, details of the error will be output in JSON format regardless of the specified file format.

(d) Please refer to "II.3.(2) DB Names" for information on DB Names.

(e) A "series code" is a unique code used to identify a series of time-series data (e.g., MADR1Z@D). When performing a data search via the search screen, a "time-series data code" (e.g., IR01'MADR1Z@D), which includes the DB Name prefixed to the "series code," is used. However, specifying a "time-series data code" in the parameter settings will result in an error. When specifying "series codes," all series must belong to the same frequency. For details on the upper limit of "series codes" allowed, please refer to "II.4.(1) Limit Value."

(f) Please refer to "II.3.(3) Layer Information" for instructions on specifying the Layer information.

(g) For Frequency, please specify one abbreviation listed in the Parameter Values. The full name of the frequency displayed in the API output cannot be used as input. Additionally, there are seven types of weekly frequencies, labeled from "W0" to "W6." When specifying parameters, use "W" to represent any weekly frequency. In the case of the '/getDataLayer,' if "W" is specified as the frequency and Layer information is used for filtering, all available weekly frequencies will be included in the output when multiple weekly frequencies exist. On the other hand, for '/getDataCode,' different frequencies cannot be mixed in a single request. For example, to retrieve codes for "W1" and "W4," two separate requests must be submitted.

(h) If the start date is not specified, the data will be output starting from the recorded start date. If the end date is not specified, the data will be output up to the recorded end date. The recorded start date and recorded end date can be confirmed in the metadata.

(i) For "*HH*," please specify either 01 or 02 (e.g., "202501" for the first half of fiscal year 2025). For "*QQ*," specify a value between 01 and 04 (e.g., "202502" for the second quarter of 2025). For "*MM*," specify a value between 01 and 12 (e.g., "202512" for December 2025).

(j) Weekly and daily data should be specified in the same format as monthly data, *YYYYMM* format.

(k) Please refer to "II.4.(2) Start Position" for details on determining the starting position for the search.

(2) DB Names

The relationship between DB Name and Database Name in the metadata for each series is as follows.

Cate-gory[(a)]	DB Name	Database Name	DB Name	Database Name
Interest Rates on Deposits and Loans				
	IR01	The Basic Discount Rates and Basic Loan Rates (Previously Indicated as "Official Discount Rates")	IR03	Average Interest Rates on Time Deposits by Term
	IR02	Average Interest Rates Posted at Financial Institutions by Type of Deposit	IR04	Average Contract Interest Rates on Loans and Discounts
Financial Markets				
	FM01	Uncollateralized Overnight Call Rate (average) (Updated every business day)	FM06	Trading of Interest-bearing Government Bonds by Purchaser (Interest-bearing Government Bonds)
	FM02	Short-term Money Market Rates	FM07	(Reference)Government Bonds Sales Over the Counter / Counter Sales Ratio (through January 2004)
	FM03	Amounts Outstanding in Short-term Money Market		
	FM04	Amounts Outstanding in the Call Money Market	FM08	Foreign Exchange Rates
	FM05	Issuance, Redemption, and Outstanding of Public and Corporate Bonds	FM09	Effective Exchange Rate
Payment and Settlement				
	PS01	Other Payment and Settlement Systems	PS02	Basic Figures on Fails
Money, Deposits and Loans				
	MD01	Monetary Base	MD11	Deposits, Vault Cash, and Loans and Bills Discounted
	MD02	Money Stock		
	MD03	Monetary Survey	MD12	Deposits, Vault Cash, and Loans and Bills Discounted by Prefecture (Domestically Licensed Banks)
	MD04	(Reference) Changes in Money Stock (M2+CDs) and Credit		
	MD05	Currency in Circulation	MD13	Principal Figures of Financial Institutions
	MD06	Sources of Changes in Current Account Balances at the Bank of Japan and Market Operations (Final Figures)	MD14	Time Deposits: Amounts Outstanding and New Deposits by Maturity
			LA01	Loans and Bills Discounted by Sector
	MD07	Reserves	LA02	Loans and Discounts by the Bank of Japan
	MD08	BOJ Current Account Balances by Sector	LA03	Outstanding of Loans (Others)
	MD09	Monetary Base and the Bank of Japan's Transactions	LA04	Commitment Lines Extended by Japanese Banks
	MD10	Amounts Outstanding of Deposits by Depositor	LA05	Senior Loan Officer Opinion Survey on Bank Lending Practices at Large Japanese Banks

Cate-gory[(a)]	DB Name	Database Name	DB Name	Database Name
Balance Sheets of the Bank of Japan and Financial Institutions				
	BS01	Bank of Japan Accounts	BS02	Financial Institutions Accounts
Flow of Funds				
	FF	Flow of Funds		
Other Bank of Japan Statistics				
	OB01	Bank of Japan's Transactions with the Government	OB02	Collateral Accepted by the Bank of Japan
TANKAN				
	CO	TANKAN		
Prices				
	PR01	Corporate Goods Price Index (CGPI)	PR03	Input-Output Price Index of the Manufacturing Industry by Sector (IOPI)
	PR02	Services Producer Price Index (SPPI)	PR04	<Satellite series> Final Demand-Intermediate Demand price indexes (FD-ID price indexes)
Public Finance				
	PF01	Statement of Receipts and Payments of the Treasury Accounts	PF02	National Government Debt
Balance of Payments and BIS-Related Statistics				
	BP01	Balance of Payments	BIS	BIS International Locational Banking Statistics and BIS International Consolidated Banking Statistics in Japan
	DER	Regular Derivatives Market Statistics in Japan		
Others				
	OT	Others		

(a) Category of Statistics

(3) Layer Information

The metadata for data series includes attribute information, such as series names, as well as Layer information that organizes the data series for individual DBs in a hierarchical tree structure. The Layer information defines the display order of data series in the DB, structured into five numerical levels.

Referring to the example in the table below, by using the '/getDataLayer' and setting the parameters for LAYERs 1 to 3 to "1," all series codes that fall under the categories of "Flow of Funds (Quarterly Data)," "Financial Assets and Liabilities," and "Financial Institutions" will be retrieved.

DB: Flow of Funds［FF］

Name of time-series	Series Code	LARER 1	LARER 2	LARER 3	LARER 4	LARER 5
Flow of Funds (Quarterly Data)		**1**	0	0	0	0
Financial Assets and Liabilities		1	**1**	0	0	0
Financial institutions		1	1	**1**	0	0
Assets/Currency and deposits/Financial institutions/Stock	FOF_FFAS100A100	**1**	**1**	**1**	1	0
Assets/-Currency/Financial institutions/Stock	FOF_FFAS100A110	**1**	**1**	**1**	2	0
Assets/-Deposits with the Bank of Japan/Financial institutions/Stock	FOF_FFAS100A120	**1**	**1**	**1**	3	0

_Central bank		1	1	**2**	0	0

Financial Trans		1	**2**	0	0	0
Reconciliation between Flows and Stocks		1	**3**	0	0	0
Flow of Funds (Fiscal Year)		**2**	0	0	0	0

Rows that have "1" set for LAYERs 1 to 3 and include a series code will be selected for output.

When using '/getDataLayer,' parameters are defined based on the Layer information of the target DB.

- Specifying Layer 1 is mandatory, while Layers 2 to 5 are optional.
- To specify multiple layers, separate them with a comma ",".
- An asterisk "*" can be used as a wildcard to include all items within a specific Layer.

Here are some examples of how to specify Layers:

Layer information Example

Code	Layer1	Layer2	Layer3	Layer4	Layer5
	1	0	0	0	0
	1	1	0	0	0
CodeA	1	1	1	0	0
CodeB	1	1	2	0	0
CodeC	1	1	3	0	0
	1	2	0	0	0
CodeD	1	2	1	0	0
CodeE	1	2	2	0	0
CodeF	1	2	3	0	0
	2	0	0	0	0
	2	1	0	0	0
CodeG	2	1	1	0	0
CodeH	2	1	2	0	0
CodeI	2	1	3	0	0
	2	2	0	0	0
	2	2	1	0	0
CodeJ	2	2	1	1	0
CodeK	2	2	1	2	0
	2	2	2	0	0
CodeL	2	2	2	1	0
CodeM	2	2	2	2	0

Examples of Layer Specifications	Explanation	Retrievable Series Codes
LAYER=*	Wildcard Specification Only	All Data
LAYER=1,1	Specify up to Layer 2	CodeA, CodeB, and CodeC
LAYER=1,*,1	Layer 1 and Layer 3 are specified, while Layer 2 is set to a wildcard.	CodeA and CodeD
LAYER=2,2,*	Layer 1 and Layer 2 are specified, while Layer 3 is set to a wildcard.	CodeJ, CodeK, CodeL, and CodeM
LAYER=*,1	Layer 2 is specified, while Layer 1 is set to a wildcard.	CodeA, CodeB, CodeC, CodeG, CodeH and CodeI

4. Limit Value

(1) Limit Value

When retrieving time-series data using '/getDataCode' and '/getLayerCode,' limitations are imposed on the specified number of series codes and data points, as outlined below.

Type	Limitation Details	Upper Limit	Processing when the upper limit is exceeded
/getLayerCode	Number of series codes extracted by specifying Layer information[(a)]	1,250	An error occurs, and the output file is not generated.
/getDataCode /getLayerCode	Number of series codes searchable per request	250	The output file contains data up to the upper limit.[(c)] The numeric value indicating the position for resuming the search is provided in the 'NEXTPOSITION'[(d)] tag.
	Number of data points searchable per request (series codes × periods)[(b)]	60,000	

(a) When '/getDataLayer' processes a request, the relevant series codes are determined based on the specified Layer information. If the total number of identified series codes exceeds the upper limit, an error will occur. Please note that the total number of series codes is calculated before filtering by the frequency specified in the request. Consequently, series codes from frequencies not specified in the request are also included in the total count. If the specified Layer information contains multiple frequencies, please exercise caution noting the above.

(Example) How to Count the Specified Upper Limit.

The number of series matched in Layer information

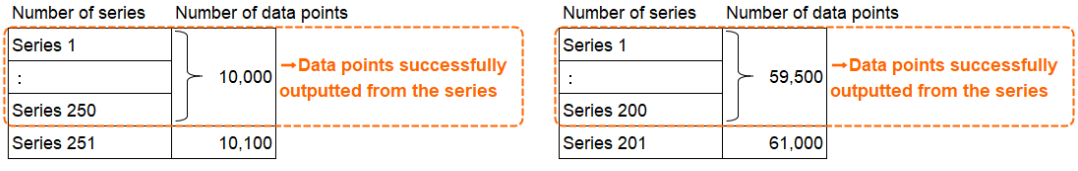
Monthly series	800
Quarterly Series	500
Total	1300

An upper limit error will occur even if the Frequency is specified as "monthly."

(b) Even if there is no relevant data, it will be output as "null" and will therefore be included in the overall data count.

(c) If either the number of series codes or data points exceeds the upper limit, data will be output up to the upper limit.

(Example) How to Count the Search Upper Limit per Request.



(d) Please refer to "II.4.(2) Start Position" for details on the position for resuming the search.

(2) Start Position

If a data search using '/getDataCode' or '/getLayerCode' exceeds the upper limit for either the number of series codes or data points retrievable in a single request, the required data can be obtained by using the STARTPOSITION parameter in the request URL.

If either the number of series codes or data points that can be retrieved in a single request exceeds the defined upper limit, a numeric value will be provided in the NEXTPOSITION field of the output file. By specifying this value from the NEXTPOSITION field in the STARTPOSITION parameter of the subsequent request, the search can resume from where the previous search left off.

Please refer to "II.4.(1) Limit Value" for details regarding how the upper limit is calculated. If no NEXTPOSITION is provided, it indicates that all available data has been successfully retrieved.

[Using '/getDataCode']

When using '/getDataCode,' the order of the series codes specified in the parameters is used as the basis for determining the STARTPOSITION. Therefore, to retrieve and output data for series codes specified in the search criteria starting from a certain position onwards, it is necessary to designate the starting point as the STARTPOSITION.

(Example 1)

A data search is performed for the entire period by specifying 200 series codes. As the number of data points exceeds the upper limit, the search is resumed starting from the 160th code.

code= PRCG20_2200000000, PRCG20_2200010001,…PRCG20_2200250004, PRCG20_2200250005,…

→ In the next request, specify "STARTPOSITION=160" in the parameters. For details on how NEXTPOSITION is provided as the starting position for the subsequent search, please refer to Example 2. In the case of Example 1, NEXTPOSITION is output as "160."

[Using '/getDataLayer']

When using '/getDataLayer,' the sequence numbers assigned to all series in the DB, based on the sorting order of information from Layer1 to Layer5, are used to determine

the STARTPOSITION. Please note that these sequence numbers are not derived from a re-sorting based on the series filtered by the search parameters.

(Example 2)

A search is conducted across all data in the DB by specifying "*" for Layer 1. Since the number of series codes exceeds the upper limit, the search is subsequently resumed starting from the NEXTPOSITION.

→ In the next request, specify "STARTPOSITION=255" in the parameters.

(Output File [CSV Format])

STATUS	200						
・・・	・・・						
PARAMETER	DB	MD10					
PARAMETER	LAYER1	*					
PARAMETER	LAYER2						
PARAMETER	LAYER3						
PARAMETER	LAYER4						
PARAMETER	LAYER5						
PARAMETER	FREQUENCY	Q					
・・・	・・・						
PARAMETER	STARTPOSITION						
NEXTPOSITION	255						
SERIES_CODE	NAME_OF_TIME_SERIES	UNIT	FREQUENCY	CATEGORY	LAST_UPDATE	SURVEY_DATES	VALUES
DLDDLKY45090_I	Total Value/Total Value/T	100 million yen	QUARTERLY	Amounts Outstanding	20231110	197001	420297
・・・	・・・						

The NEXTPOSITION is output

[How to Specify Parameters for the Next Search]

db= MD10 & frequency= Q &layer= * & startPosition= 255

(3) Method to Request Series that Exceed the Limit Value

When retrieving a large amount of series data, such as during a search across all data in the DB, it is necessary to specify parameters while taking the limit values into consideration. Please note that the number of requests may increase significantly if the number of data series in the DB is large.

For cases where the number of series data to be retrieved exceeds the upper limit, users should request using '/getMetadata' beforehand to obtain the metadata. Afterward, proceed with the search by following the steps outlined below. Additionally, when performing repeat processes, ensure that there is sufficient interval between requests to avoid high-frequency access.

[Using '/getDataCode']

(i) (First Request)
Specify 250 series codes in the parameters and perform the search to output the data. At this time, ensure that all specified series codes have the same frequency.

(ii) (Second Request)
If the NEXTPOSITION value is present in the output file from step (i), specify this value as the STARTPOSITION in the parameters for step (i) of the next request and continue the search from the point where the previous request ended. If the NEXTPOSITION value is not present, proceed to step (iv).

(iii) (Third and Subsequent Requests)
Repeat step (ii) until no NEXTPOSITION value is included in the output.

(iv) Return to step (i), and for the series codes starting from the 251st onward, repeat steps (i) to (iii) in batches of 250 series codes until all data has been output successfully.

[Using '/getDataLayer']

(i) Prepare the Layer information settings so that the results filtered by the specified Layer information do not exceed 1,250 entries. For example, if there are 2,000 series codes in the DB and all series need to be retrieved, setting LAYER1 to "*" will result in an upper limit error. However, by setting LAYER1 to "1" and retrieving 1,100 entries, and then setting LAYER1 to "2" and retrieving 900 entries, all series can be successfully retrieved in two requests.

(ii) (First Request)
Specify the Layer information prepared in step (i) in the parameters, perform the search, and output the data.

(iii) (Second Request)
If the NEXTPOSITION value is present in the output file from step (ii), specify this value as the STARTPOSITION in the parameters for step (ii) of the next request and continue the search from the point where the previous request ended.

(iv) (Third and Subsequent Requests)
Repeat step (iii) until no NEXTPOSITION value is included in the output.

(v) Return to step (i), prepare a new Layer information setting, and repeat steps (ii) to (iv) to output all remaining data.

III. Regarding API Responses

1. Output File Format

Each API outputs data in either JSON or CSV format. The response formats for the output are detailed below.

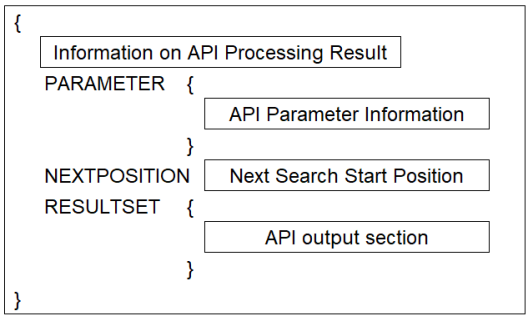
Please note that if there are any errors due to incorrect URL settings, the output will always be returned in JSON format. Even if CSV format is specified, error messages will still be returned in JSON format.

Output File Format	Response Format
JSON	Content-Type: application/json
CSV	Content-Type: text/csv

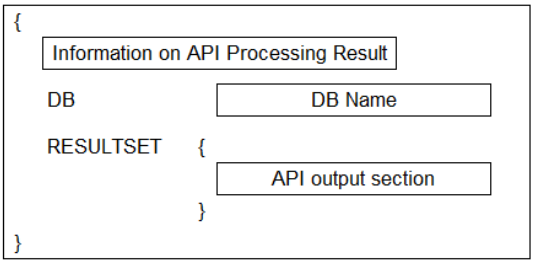
2. Output File Structure

The structure of output files for each API is as follows. Please note that tag names vary depending on the API.

'/getDataCode' '/getDataLayer'



'/getMetaData'

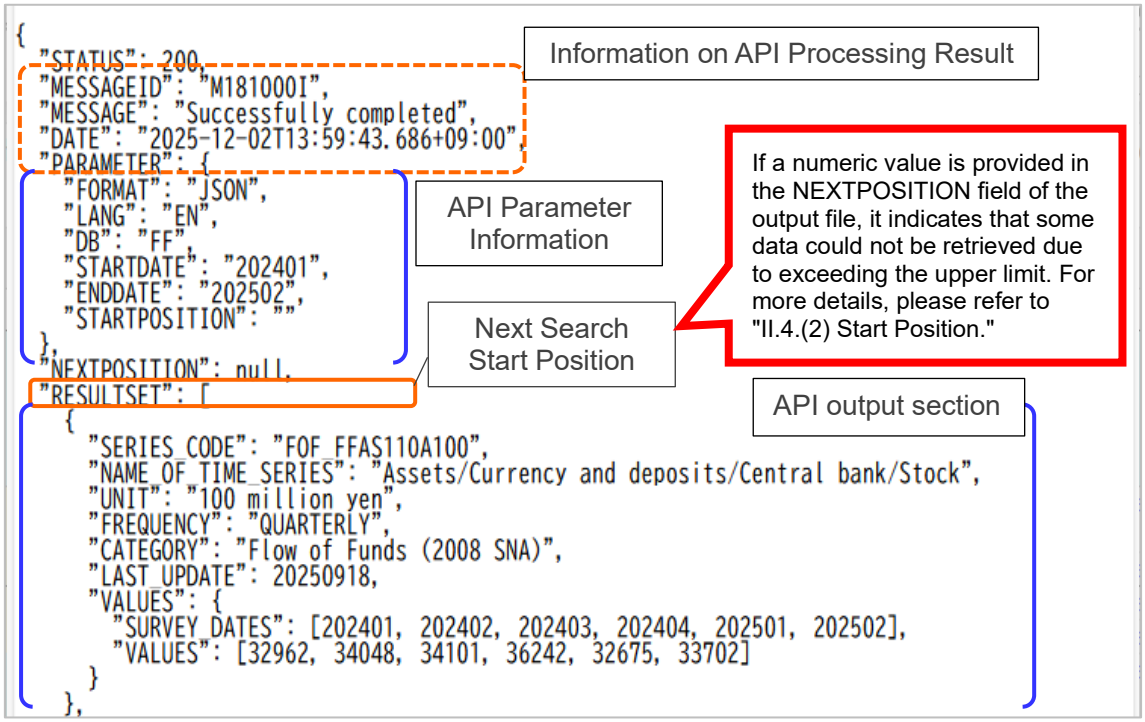


3. Display rules for Output Data

(1) For Successful Completion

The structure of the JSON format is as follows, using UTF-8 as the character encoding.

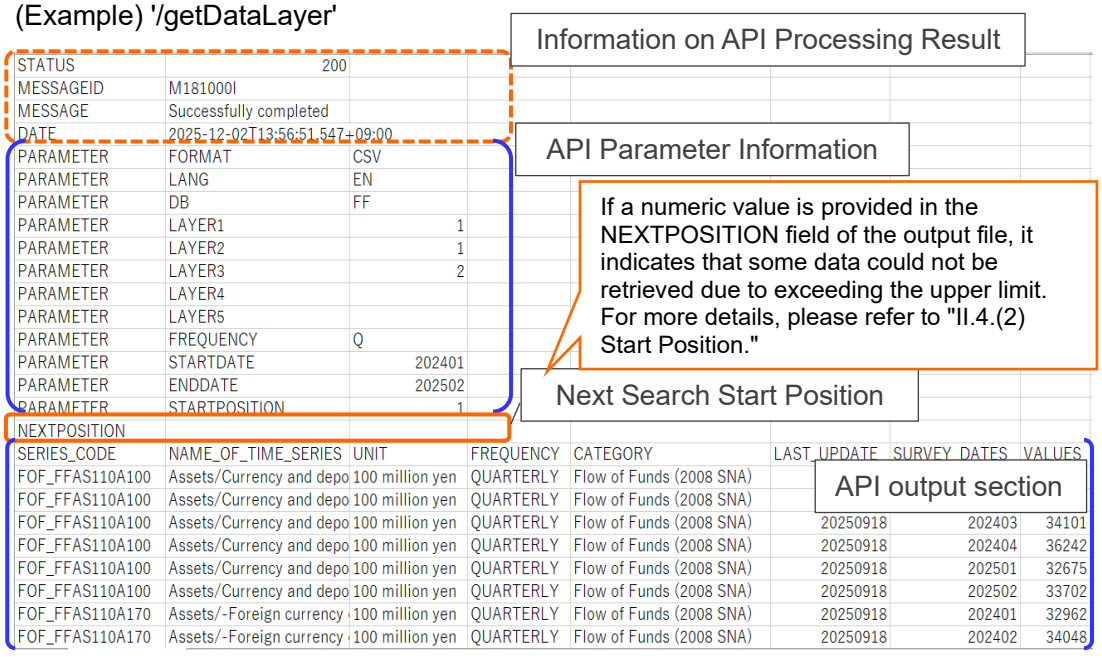
(Example) '/getDataCode'




```
{
  "STATUS": 200,
  "MESSAGEID": "M181000I",
  "MESSAGE": "Successfully completed",
  "DATE": "2025-12-02T13:59:43.686+09:00",
  "PARAMETER": {
    "FORMAT": "JSON",
    "LANG": "EN",
    "DB": "FF",
    "STARTDATE": "202401",
    "ENDDATE": "202502",
    "STARTPOSITION": ""
  },
  "NEXTPOSITION": null,
  "RESULTSET": [
    {
      "SERIES_CODE": "FOF_FFAS110A100",
      "NAME_OF_TIME_SERIES": "Assets/Currency and deposits/Central bank/Stock",
      "UNIT": "100 million yen",
      "FREQUENCY": "QUARTERLY",
      "CATEGORY": "Flow of Funds (2008 SNA)",
      "LAST_UPDATE": 20250918,
      "VALUES": {
        "SURVEY_DATES": [202401, 202402, 202403, 202404, 202501, 202502],
        "VALUES": [32962, 34048, 34101, 36242, 32675, 33702]
      }
    },
```


The structure of the CSV format is as follows: In the API output, for each data series, the first row contains the tag names, and the subsequent rows include the metadata and time-series data. For character encoding, Shift-JIS is used for Japanese, while UTF-8 is used for English.

(Example) '/getDataLayer'



STATUS	200						
MESSAGEID	M181000I						
MESSAGE	Successfully completed						
DATE	2025-12-02T13:56:51.547+09:00						
PARAMETER	FORMAT	CSV					
PARAMETER	LANG	EN					
PARAMETER	DB	FF					
PARAMETER	LAYER1	1					
PARAMETER	LAYER2	1					
PARAMETER	LAYER3	2					
PARAMETER	LAYER4						
PARAMETER	LAYER5						
PARAMETER	FREQUENCY	Q					
PARAMETER	STARTDATE	202401					
PARAMETER	ENDDATE	202502					
PARAMETER	STARTPOSITION	1					
NEXTPOSITION							
SERIES_CODE	NAME_OF_TIME_SERIES	UNIT	FREQUENCY	CATEGORY	LAST_UPDATE	SURVEY_DATES	VALUES
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)			
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)			
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202403	34101
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202404	36242
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202501	32675
FOF_FFAS110A100	Assets/Currency and depo	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202502	33702
FOF_FFAS110A170	Assets/-Foreign currency	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202401	32962
FOF_FFAS110A170	Assets/-Foreign currency	100 million yen	QUARTERLY	Flow of Funds (2008 SNA)	20250918	202402	34048

(2) For Errors

If there are any errors in the specified parameters or if an error occurs during access, the output file will display the error details. In such cases, the specified parameter information and the retrieved data will not be included in the output.

If an error occurs before the system determines the language, the error message will only be displayed in English.

For detailed information about the error messages, please refer to "III.5. Explanation of the Messages."

(Example 1)


```
{
 "STATUS":400,
 "MESSAGEID":"M181005E",
 "MESSAGE":"Invalid database name",
 "DATE":"2025-12-01T17:06:57.206+09:00"
}
```


(Example 2)


```
{
  "STATUS": 500,
  "MESSAGEID": "M181090S",
  "MESSAGE": "An unexpected error occurred. Please try again later.",
  "DATE": "2025-12-02T14:01:29.947+09:00"
}
```

4. Explanation of Output Data

(1) Information on API Processing Result (Common to all APIs)

Tag name	Content	Supplement
STATUS	The API outputs the processing result as a status code. A status code of "200" indicates successful completion, while any other status code indicates an error. 200: Successful completion 400: Invalid parameters 500: Unexpected error 503: Database access error	When the status code is "400," "500," or "503," the result file will be output in JSON format regardless of the specified file format.
MESSAGEID	The processing results of the API are output based on the message ID.	Please refer to "III.5. Explanation of the Messages."
MESSAGE	The message corresponding to the MESSAGEID will be output.	
DATE	・In the files '/getDataCode' and '/getDataLayer,' the creation date and time of the output file is displayed. ・In the file '/getMetaData,' the system displays the internal data creation date and time. This does not indicate the creation date and time of the output file.	The date and time are displayed in Japan Standard Time.

(2) API Parameter Information ('/getDataCode' and '/getDataLayer')

The parameter information specified in the URL at the time of the request will be output. If no parameter information is specified, only the tag names will be displayed, with their values left blank.

Tag name	Content	Supplement
FORMAT	File format JSON, CSV	If not specified, the output file will be generated in JSON format.
LANG	Language English: EN, Japanese: JP	If not specified, the output will be generated in Japanese.
DB	DB Name	Please refer to "II.3.(2) DB Names."
LAYER1,LAYER2, LAYER3,LAYER4, LAYER5	Layer information LAYER1: Layer1, LAYER2: Layer2 LAYER3: Layer4, LAYER4: Layer4 LAYER5: Layer5	'/getDataLayer' only. Please refer to "II.3.(3) Layer Information."
FREQUENCY	Frequency Calendar year: CY, Calendar half-year: CH Fiscal year: FY, Fiscal half-year: FH Quarter: Q, Monthly: M, Weekly: W, Daily: D	'/getDataLayer' only.

Tag name	Content		Supplement
STARTDATE	recorded start date	Calendar year: YYYY format Fiscal year: YYYY format Calendar half-year: YYYYHH format Fiscal half-year: YYYYHH format Quarter: YYYYQQ format Monthly: YYYYMM format Weekly: YYYYMM format Daily: YYYYMM format	Sample Parameter Settings: ・First Half of Fiscal Year 2025: 202501 ・Second Quarter of 2025: 202502 ・December 2025: 202512
ENDDATE	recorded end date		
STARTPOSITION	Position to start the search from		Please refer to "II.4.(2) Start Position."

(3) NextPosition ('/getDataCode' and '/getDataLayer')

If the number of series extracted during the search exceeds the upper limit, the value of NEXTPOSITION will be output.

Tag name	Content	Supplement
NEXTPOSITION	Next Search Start Position	Please refer to "II.4.(2) Start Position." If there is no output for "NEXT POSITION," the output results will vary depending on the file format. For JSON format: null, for CSV format: Blank

(4) DB Name ('/getMetaData')

Tag name	Content	Supplement
DB	DB Name	Please refer to "II.3.(2) DB Names."

(5) API Output Section ('/getDataCode' and '/getDataLayer')

The tags included in the output file will vary depending on the language of the output.

Tag name	Content	File language	
		Japanese	English
SERIES_CODE	Series Code A unique code used to identify a series of time-series data. The DB Name is not included at the beginning of the code.	✓	✓
NAME_OF_TIME_SERIES_J	Name of time-series (Japanese)	✓	
NAME_OF_TIME_SERIES	Name of time-series (English)		✓
UNIT_J	Unit (Japanese)	✓	
UNIT	Unit (English)		✓

Tag name	Content	File language	
		Japanese	English
FREQUENCY	Frequency ANNUAL: Calendar year ANNUAL(MAR): Fiscal year SEMIANNUAL: Calendar half-year SEMIANNUAL(SEP): Fiscal half-year QUARTERLY: Quarter, MONTHLY: Monthly WEEKLY(MONDAY): Weekly (Monday)[(a)] DAILY: Daily (a) Tuesday through Sunday as well.	✓	✓
CATEGORY_J	Statistical category (Japanese)	✓	
CATEGORY	Statistical category (English)		✓
LAST_UPDATE	Last update The date is displayed in the YYYYMMDD format. The "Last update" is updated whenever the metadata or data of a series is modified. For CSV format, the same "Last update" is output for each data series.	✓	✓
SURVEY_DATES	Data Period The results are displayed in the following format, varying by frequency. This format differs from the one displayed on the search screen. Calendar year: YYYY format Fiscal year: YYYY format Calendar half-year: YYYYHH format Fiscal half-year: YYYYHH format Quarter: YYYYQQ format Monthly: YYYYMM format Weekly: YYYYMMDD format Dairy: YYYYMMDD format	✓	✓
VALUES	Values If there are missing values, "null" will be displayed in the search results. The output differs from the results generated via the search screen, where "NA" or "ND" will appear instead.	✓	✓

(6) API Output Section ('/getMetaData')

The tags included in the output file will vary depending on the language of the output.

Tag name	Content	File language	
		Japanese	English
SERIES_CODE	Series Code A unique code used to identify a series of time-series data. The DB Name is not included at the beginning of the code. When outputting only Layer, the series code is blank.	✓	✓
NAME_OF_TIME_SERIES_J	Name of time-series (Japanese)	✓	
NAME_OF_TIME_SERIES	Name of time-series (English)	✓	✓
UNIT_J	Unit (Japanese)	✓	
UNIT	Unit (English)	✓	✓
FREQUENCY	Frequency ANNUAL: Calendar year ANNUAL(MAR): Fiscal year SEMIANNUAL: Calendar half-year SEMIANNUAL(SEP): Fiscal half-year QUARTERLY: Quarter, MONTHLY: Monthly WEEKLY(MONDAY): Weekly (Monday)[(a)] DAILY: Daily (a) Tuesday through Sunday as well. The full name of the frequency will be displayed in the output of the API. When specifying the frequency in the parameters using '/getDataCode' or '/getDataLayer,' use the abbreviated notation instead. Specifying the full name of the frequency displayed in the API output will result in an error.	✓	✓
CATEGORY_J	Statistical category (Japanese)	✓	
CATEGORY	Statistical category (English)	✓	✓
LAYER1	Layer1	✓	✓
LAYER2	Layer2	✓	✓
LAYER3	Layer3	✓	✓
LAYER4	Layer4	✓	✓
LAYER5	Layer5	✓	✓

Tag name	Content		File language	
			Japanese	English
START_OF_THE_TIME_SERIES	recorded start date	The results are displayed in the following format, varying by frequency. This format differs from the one displayed on the search screen. Calendar year: YYYY format Fiscal year: YYYY format Calendar half-year: YYYYHH format Fiscal half-year: YYYYHH format Quarter: YYYYQQ format Monthly: YYYYMM format Weekly: YYYYMMDD format(b) Dairy: YYYYMMDD format(b) (b) When specifying parameters in '/getDataCode' or '/getDataLayer,' Weekly and daily data should be specified in the same format as monthly data.	✓	✓
END_OF_THE_TIME_SERIES	recorded end date		✓	✓
LAST_UPDATE	Last update The date is displayed in the *YYYYMMDD* format. The "Last update" is updated whenever the metadata or data of a series is modified.		✓	✓
NOTES_J	Notes (Japanese)		✓	
NOTES	Notes (English)		✓	✓

5. Explanation of the Messages

If the STATUS (API processing result) is "200," it indicates a successful completion, while any value other than "200" indicates an error.

A STATUS of "400" is returned when there is an error in the parameter configuration. Please review and correct the parameters before submitting the request. For instructions on how to configure the parameters, refer to "II. Creating Request URLs."

STATUS	MESSAGEID	MESSAGE	Supplement
200	M181000I	Successfully completed	This includes cases where some data may contain missing values.(a)
	M181030I	Successfully completed with no applicable data	“No applicable data” refers to cases where the specified series and periods are entirely outside the recording period, or all the data in the specified series is missing.(a)
400	M181001E	Invalid input parameters	Certain symbols (< > " ! | ¥ ; ') and full-width characters are not allowed. This message will appear if data codes that include DB Names prefixed to series codes (e.g., IR01'MADR1Z@D).

STATUS	MESSAGEID	MESSAGE	Supplement
400	M181002E	Invalid language setting	-
	M181003E	Invalid file format	-
	M181004E	Specify database name	-
	M181005E	Invalid database name	-
	M181006E	Specify series code	-
	M181007E	Number of series codes must be less than 1250	-
	M181008E	Invalid start period	-
	M181009E	Invalid end period	-
	M181010E	Specify a time period between 1850 and 2050	-
	M181011E	Put start and end periods in a correct order	Please specify a start period no later than the end period.
	M181012E	Invalid search start position	Please specify an integer greater than or equal to 1. Please refer to "II.4.(2) Start Position" for instructions on how to specify.
	M181013E	Nonexistent series code: *	The items marked with "*" will be displayed in the specified order.
	M181014E	Frequency not matching (series code): *	The items marked with "*" will be displayed in the specified order.
	M181015E	Invalid frequency (start period)	-
	M181016E	Invalid frequency (end period)	-
	M181017E	Specify frequency	-
	M181018E	Invalid frequency	-
	M181019E	Specify layer information	Specifying Layer 1 is mandatory, while specification of Layers 2 through 5 is optional. It is not possible to specify more than six Layers.
	M181020E	Invalid layer information	Please refer to "II.3.(3) Layer Information" for the correct method of specifying Layer information.
500	M181090S	An unexpected error occurred. Please try again later.	-
503	M181091S	Error accessing database. Please try again later.	-

(a) If there are missing values, "null" will be displayed in the search results.

IV. Usage Examples

1. Example of Parameter Specification and Output Files

The parameter setting examples and output files are as follows. Please note that the output files shown below are from the development stage and are subject to change without prior notice. Additionally, they are provided solely for the purposes of this manual and do not guarantee the accuracy or completeness of the data. Furthermore, even if similar parameter settings are applied, the output data may vary depending on the time of execution.

(1) '/getDataCode'

Example	https://www.stat-search.boj.or.jp/api/v1/getDataCode?format=json&lang=en&db=CO&startDate=202401&endDate=202504&code=TK99F1000601GCQ01000,TK99F2000601GCQ01000
Explanation	File format: JSON, Language: English, DB Name: CO(TANKAN) Start Date: Q1 2024 (January-March 2024) End Date: Q4 2025 (October-December 2025) Series Code: TK99F1000601GCQ01000, TK99F2000601GCQ01000

Output file (JSON Format)


```
{
  "STATUS": 200,
  "MESSAGEID": "M181000I",
  "MESSAGE": "Successfully completed",
  "DATE": "2025-12-02T13:15:17.659+09:00",
  "PARAMETER": {
    "FORMAT": "JSON",
    "LANG": "EN",
    "DB": "CO",
    "STARTDATE": "202401",
    "ENDDATE": "202504",
    "STARTPOSITION": ""
  },
  "NEXTPOSITION": null,
  "RESULTSET": [
    {
      "SERIES_CODE": "TK99F1000601GCQ01000",
      "NAME_OF_TIME_SERIES": "D.I./Business Conditions/Large Enterprises/Manufacturing/Actual result",
      "UNIT": "% points",
      "FREQUENCY": "QUARTERLY",
      "CATEGORY": "TANKAN/Judgement Survey",
      "LAST_UPDATE": 20251002,
      "VALUES": {
        "SURVEY_DATES": [202401, 202402, 202403, 202404, 202501, 202502, 202503, 202504],
        "VALUES": [11, 13, 13, 14, 12, 13, 14, null]
      }
    },
    {
      "SERIES_CODE": "TK99F2000601GCQ01000",
      "NAME_OF_TIME_SERIES": "D.I./Business Conditions/Large Enterprises/Nonmanufacturing/Actual result",
      "UNIT": "% points",
      "FREQUENCY": "QUARTERLY",
      "CATEGORY": "TANKAN/Judgement Survey",
      "LAST_UPDATE": 20251002,
      "VALUES": {
        "SURVEY_DATES": [202401, 202402, 202403, 202404, 202501, 202502, 202503, 202504],
        "VALUES": [34, 33, 34, 33, 35, 34, 34, null]
      }
    }
  ]
}
```


First series code

Second series code

(2) '/getDataLayer'

Example	https://www.stat-search.boj.or.jp/api/v1/getDataLayer?format=csv&lang=en&db=BP01&frequency=M&startDate=202504&endDate=202509&layer=1,1,1
Explanation	File format: CSV, Language: English, DB Name: BP01 (Balance of Payments) Frequency: M (Monthly), Start Date: April 2025, End Date: September 2025 Layer information (LAYER1: 1, LAYER2: 1, LAYER3: 1)

Output file (CSV Format)

STATUS	200						
MESSAGEID	M181000I						
MESSAGE	Successfully completed						
DATE	2025-12-02T13:34:54.313+09:00						
PARAMETER	FORMAT	CSV					
PARAMETER	LANG	EN					
PARAMETER	DB	BP01					
PARAMETER	LAYER1	1					
PARAMETER	LAYER2	1					
PARAMETER	LAYER3	1					
PARAMETER	LAYER4						
PARAMETER	LAYER5						
PARAMETER	FREQUENCY	M					
PARAMETER	STARTDATE	202504					
PARAMETER	ENDDATE	202509					
PARAMETER	STARTPOSITION						
NEXTPOSITION							
SERIES_CODE	NAME_OF_TIME_SERIES	UNIT	FREQUENCY	CATEGORY	LAST_UPDATE	SURVEY_DATES	VALUES
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202504	22140.5155
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202505	33965.80862
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202506	13310.2756
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202507	26843.19422
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202508	37758.3084
BPBP6JYNCB	Current account/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202509	null
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202504	-7754.330958
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202505	-3709.980637
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202506	2831.01933
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202507	-8849.373046
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202508	-840.0894788
BPBP6JYNTS	Goods & services/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202509	null
BPBP6JYNTB	Goods/Net balance	100 million Yen	MONTHLY	Balance of Payments (Data Based	20251008	202504	-436.9270793

First series code

Second series code

(3) '/getMetaData'

Example	https://www.stat-search.boj.or.jp/api/v1/getMetadata?format=csv&lang=en&db=fm08
Explanation	File format: CSV, Language: English DB Name: FM08 (Foreign Exchange Rates)

Output file (CSV Format)

	FM08												
IES_CODE	NAME_OF_TIME_SERIES	UNIT	FREQUENCY	CATEGORY	LAYER1	LAYER2	LAYER3	LAYER4	LAYER5	START_OF_	END_OF_T	LAST_UPDATE	NOTES
	Foreign Exchange Rates (Daily)				1	0	0	0	0				
ERD01	US.Dollar/Yen Spot Rate a	Yen per U.S. Dollar	DAILY	Foreign Exch	1	1	0	0	0	19990101	20250114	20250116	Central
ERD02	US.Dollar/Yen Highest, To	Yen per U.S. Dollar	DAILY	Foreign Exch	1	2	0	0	0	19990101	20250114	20250116	
ERD03	US.Dollar/Yen Lowest, Tol	Yen per U.S. Dollar	DAILY	Foreign Exch	1	3	0	0	0	19990101	20250114	20250116	
ERD04	US.Dollar/Yen Spot Rate a	Yen per U.S. Dollar	DAILY	Foreign Exch	1	4	0	0	0	19980105	20250114	20250116	Central
ERD05	US.Dollar/Yen Central Rat	Yen per U.S. Dollar	DAILY	Foreign Exch	1	5	0	0	0	19990101	20250114	20250116	Most tr
ERD06	US.Dollar/Yen, Turnover o	Million U.S. Dollars	DAILY	Foreign Exch	1	6	0	0	0	19990101	20250114	20250116	Daily tu
ERD07	US.Dollar/Yen, Turnover o	Million U.S. Dollars	DAILY	Foreign Exch	1	7	0	0	0	19990101	20250114	20250116	Daily tu
ERD31	Euro/US.Dollar as of 9:00a	U.S. Dollar per Euro	DAILY	Foreign Exch	1	8	0	0	0	19990101	20250114	20250116	Central
ERD32	Euro/US.Dollar Highest, To	U.S. Dollar per Euro	DAILY	Foreign Exch	1	9	0	0	0	19990101	20250114	20250116	
ERD33	Euro/US.Dollar Lowest, To	U.S. Dollar per Euro	DAILY	Foreign Exch	1	10	0	0	0	19990101	20250114	20250116	
ERD34	Euro/US.Dollar as of 17:00	U.S. Dollar per Euro	DAILY	Foreign Exch	1	11	0	0	0	19980105	20250114	20250116	See not
ERD35	Euro/US.Dollar Turnover o	Million U.S. Dollars	DAILY	Foreign Exch	1	12	0	0	0	19990101	20250114	20250116	Daily tu

2. Example of Parameter Specification

(1) '/getDataCode'

Set value	File format	JSON
	Language	English
	DB Name	CO (TANKAN)
	Series Code	TK99F1000601GCQ01000 TK99F2000601GCQ01000
	Start Date	Q1 2024 (January-March 2024)
	End Date	Q4 2025 (October-December 2025)
	Position to start the search from	Not specified
URL	https://www.stat-search.boj.or.jp/api/v1/getDataCode?format=json&lang=en&db=CO&startDate=202401&endDate=202504&code=TK99F1000601GCQ01000,TK99F2000601GCQ01000	

Set value	File format	Not specified
	Language	English
	DB Name	FM01 (Uncollateralized Overnight Call Rate (average) (Updated every business day))
	Series Code	STRDCLUCON STRDCLUCONH STRDCLUCONL
	Start Date	January 2025
	End Date	Not specified
	Position to start the search from	Not specified
URL	https://www.stat-search.boj.or.jp/api/v1/getDataCode?lang=en&db=FM01&code=STRDCLUCON,STRDCLUCONH,STRDCLUCONL&startDate=202501	

(2) '/getDataLayer'

Set value	File format	CSV
	Language	English
	DB Name	BP01 (Balance of Payments)
	Frequency	M (Monthly)
	Layer information	LAYER1= 1, LAYER2= 1, LAYER3= 1
	Start Date	April 2025
	End Date	September 2025
	Position to start the search from	Not specified
URL	https://www.stat-search.boj.or.jp/api/v1/getDataLayer?format=csv&lang=en&db=BP01&frequency=M&startDate=202504&endDate=202509&layer=1,1,1	

Set value	File format	Not specified
	Language	English
	DB Name	MD10 (Amounts Outstanding of Deposits by Depositor)
	Frequency	Q (Quarterly)
	Layer information	* (all data)
	Start Date	Not specified
	End Date	Not specified
	Position to start the search from	255th
URL	https://www.stat-search.boj.or.jp/api/v1/getDataLayer?lang=en&db=md10&frequency=q&layer=*&startPosition=255	

(3) '/getMetaData'

Set value	File format	CSV
	Language	English
	DB Name	FM08 (Foreign Exchange Rates)
URL	https://www.stat-search.boj.or.jp/api/v1/getMetadata?format=csv&lang=en&db=fm08	

Set value	File format	Not specified
	Language	English
	DB Name	PR01 (Corporate Goods Price Index (CGPI))
URL	https://www.stat-search.boj.or.jp/api/v1/getMetadata?db=pr01&lang=en	