

# API Statistical User Manual

م 2022/04/03

البنك المركزي السعودي  
SAMA  
Saudi Central Bank



## API Description:

SAMA API service is dedicated to enable data connection for the third-party system. It will provide other organization/entities more flexibly and provides convenient, fast standard connection mode and data structure, which effectively reduces the complexity of the third-party system integration.

This document to determine how to use the service.

Important notes that must be taken into consideration when using the service:

- We have two type of different table structure Vertical/ Horizontal Tables each one of them should be handled as mention below.
- Updating the API URL is very necessary in case you lose one or more of your data item at your end.

For any clarifications regarding the API, please contact us through e-mail at [APISupport@SAMA.GOV.SA](mailto:APISupport@SAMA.GOV.SA)

## Service Information:

Variables	Value	Note
<b>Service Url</b>	<code>https://www.Sama.gov.sa/_layouts/15/SAMA.Internet.WC M/WebMethods.aspx/GetStatiscalById?id={ID:Number}&amp;l ang="{Language:["ar","en"]}"</code>	The service url contain 2 variables ID : the generated ID by the client . Language : string ["ar", "en"] → "ar" for Arabic, "en" for English
<b>Verbs</b>	GET	
<b>Headers</b>	Accept : application/json Content-Type : application/json; charset=utf-8	

\*Use Postman or similar applications to get the JSON result.

\*\* If you try to call this service from the browser, you will not get the result

JSON Response Structure Example:

```
{
  Message: "Success",
  HasError: false,
  - Result: {
    RequestId: 308,
    TableName: "التقرير الإحصائي",
    + ColumnsDef: [ ... ],
    + RowsData: [ ... ],
    + FootNotes: [ ... ],
    + MetaData: [ ... ],
    IsHorizontal: false
  }
}
```

## Vertical Tables

### Level one

The first level JSON object contains the following columns, including the preliminary information.

Id	Key Name	Type	Note
1	HasError	Boolean	
2	Message	String	If Has Error return true, you can use the message key to describe the error
3	Result	JSON Objects	Data result

### Level two

The first level JSON object contains the following columns, including the preliminary information.

Id	Key Name	Type	Note
1	RequestId	Number	Requested identity
2	TableName	String	Main title
3	ColumnsDef	JSON Objects[]	Table data columns
4	RowsData	JSON Objects[]	Table data rows
5	FootNotes	JSON Objects[]	Foot note information
6	MetaData	String[]	Meta data table
7	IsHorizontal	Boolean	To determine if the table horizontal or not (false = Vertical table)

### Level three

Columns Definition (ColumnsDef):

Id	Key Name	Type	Note
1	ColId	String	Column Identity
2	ColTitle	String	Display name
3	ParentColId	String	Sub-Column, which maps to another Column (ColId)
4	IsGroupHeader	Boolean	To determine if the column is a group header or a column

\* All columns are sorted

### Row Data (RowsData)

This object will contain keys and values. Keys mapped with and hold the column identity.

Id	Key Name	Type	Note
1	Key	String	Column Identity
2	Value	String	Value string

### Foot Notes (FootNotes):

This object contains list of citations table information.

Id	Key Name	Type	Note
1	ID	Number	Column Identity
2	FootNote	String	Value string
3	Unit	String	Value string
4	Currency	String	Value string

### Meta Data (MetaData):

This object contains the described data for the table.

Id	Key Name	Type	Note
1	Value	String	Meta Data Value

Example:

Balance Sheet of Saudi Central Bank - Assets Table Name

Generate Chart
Exports As CSV File
Exports As Excel File
API Link

ColumnsDef

Date	Cash Cover		Cash in Vault	Deposits with Banks Abroad	Investment in Foreign Securities	Other Miscellaneous Assets	TOTAL
	Gold	Foreign Currencies					
Jul 2021	1,624	271,186	30,071	244,300	1,130,445	171,304	1,848,928
Aug 2021	1,624	268,617	37,337	264,083	1,147,316	153,483	1,872,460
Sep 2021	1,624	261,867	34,633	306,537	1,152,714	133,330	1,890,704
Oct 2021	1,624	259,525	34,753	270,278	1,135,985	150,335	1,852,500

RowsData

**Foot Notes**

FootNotes

Unit : Million  
 Currency : Riyals  
 Data for June 2021 Represents the end of SAMA's Financial Year (Unaudited Preliminary).

**Meta Data**

MetaData

Data for June 2021 Represents the end of SAMA's Financial Year (Unaudited Preliminary).

## Horizontal Tables

### Level one

The first level JSON object contains the following columns, including the preliminary information.

Id	Key Name	Type	Note
1	HasError	Boolean	
2	Message	String	If HasError return true, you can use the message key to describe the error
3	Result	JSON Objects	Data result

### Level two

#### Result object (Result):

Id	Key Name	Type	Note
1	RequestId	Number	Requested identity
2	TableName	String	The main title, Display name
3	ColumnsDef	JSON Objects[]	Table data columns
4	RowsData	JSON Objects[]	Table data rows
5	FootNotes	JSON Objects[]	Foot note information
6	MetaData	String []	Meta data information
7	IsHorizontal	Boolean	To determine if the table horizontal or not, (true = horizontal table)

### Level three

#### Columns Definition (ColumnsDef):

Id	Key Name	Type	Note
1	ColId	String	Column Identity
2	ColTitle	String	Display name
3	ParentColId	String	Null means root columns and not related to any other column.
4	IsGroupHeader	Boolean	To determine if the column is a group header or a column

\* All columns are sorted

### Row Data (RowsData)

This object will contain keys and values. Keys mapped with and hold the column identity.

Id	Key Name	Type	Note
1	ID	Number	Column Identity
2	ParentID	String	Tbl: Null, Grp, Grp' N' and Col should have a number to map with their parent The table has many Groups, and each group has many columns.
3	Type	String	Tbl: Table. Grp: Group. Col: Column.
4	SequenceNumber	Number	List sort order
5	Columns Name	String	Columns name generated dynamically based on the number of columns

### Footer Notes (FootNotes):

This object contains list of citations table information.

Id	Key Name	Type	Note
1	ID	Number	Column Identity
2	FootNote	String	Value string
3	Unit	String	Value string
4	Currency	String	Value string

### Meta Data (MetaData):

This object contains the described data for the table.

Id	Key Name	Type	Note
1	Value	string	Meta Data Value

Example:

## Statistical Report

Column	14	2015	2016	2017	2018	2019	2020
<b>The Kingdom's Foreign Aid</b>							
Loans and Aid (1)	136	28,430	11,494	16,542	37,500	35,157	17,088
Contributions to Associations and Organizations (1)	26	1,337	18,999	975	680	2,448	2,142
Multilateral Aid (1)	3	60	43	26	21	-	-
<b>Total (1)</b>	<b>161</b>	<b>29,827</b>	<b>30,536</b>	<b>17,543</b>	<b>38,201</b>	<b>37,605</b>	<b>19,230</b>
<b>External debt</b>							
<b>General Government</b>							
<b>Long-term</b>							
debt securities (2)		-	-	146,250	195,000	197,212	240,404
Loans (2)		-	-	37,500	60,000	60,000	60,698
Trade credits (2)		-	-	-	-	-	-
Other debt Liabilities (2)		-	-	-	-	-	-
<b>Central Bank</b>							
<b>Short-term</b>							
Money market instruments (2)		-	-	-	-	-	-
Loans (2)		-	-	-	-	-	-
Currency and deposits (2)		-	-	18,469	17,190	12,249	8,349
Other debt Liabilities (2)		-	-	-	-	-	-
<b>Non-term</b>							

## Foot Notes

(1)  
 Unit : Million  
 Currency : Riyals  
 Source : Ministry of Finance.  
 Contributions to Associations and Organizations for 2019 and 2020 Includes multilateral aid

(2)  
 Unit : Million  
 Currency : Riyals  
 p: Preliminary  
 e: Estimated