Markets Data API Reference

Markets API: REST v2.0, SOAP v2.3
Document: v22
Status: For Release

Use of the Effective Fed Funds Rate (EFFR), Overnight Bank Funding Rate (OBFR) Treasury Repo Benchmark Rates, and SOFR Averages and Index (SOFR-avg-ind) are subject to important disclaimers, limitations and indemnification obligations. See the [Reference Rates Terms of Use].

Use of the Markets Data API and all other data accessible through the Markets Data API is subject to the Federal Reserve Bank of New York website [Terms of Use].
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Introduction

The Markets Data APIs are provided to external users and applications so that they may request data from the Federal Reserve Bank of New York. The APIs are architected using either a SOAP or a RESTful interface, with structured semantic URLs. As these APIs are intended to be consumed by a variety of systems, the data they return are in multiple formats. This document will outline how to retrieve data in various formats for the data set listed below.

APIs Covered

- System Open Market Account Holdings (SOMA)
- Primary Dealer Statistics
- DeskOperations
  - Treasury Securities
  - Agency Mortgage-Backed Securities
  - Temporary Open Market Operations (TOMO)
    - Repo
    - Reverse Repo
  - Securities Lending
- Reference Rates
  - Effective Federal Funds Rate (EFFR)
  - Overnight Bank Funding Rate (OBFR)
  - Treasury Repo Rates
    - Broad General Collateral Rate (BGCR)
    - Tri-Party General Collateral Rate (TGCR)
    - Secured Overnight Financing Rate (SOFR)
      - SOFR Averages & Index
- Other Rates
  - Term Securities Lending Facility (TSLF)
  - Commercial Paper Funding Facility (CPFF)
  - Foreign Exchange Rates (Fx Rates)
What’s New in this Version

• New services added for AMBS (AMBS Methods)
  o New Methods
    ▪ ambs/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/latest.[FORMAT]
    ▪ ambs/[OPERATION]/[RECORDTYPE]/results/[REPORTTYPE]/latest.[FORMAT]
    ▪ ambs/[OPERATION]/[RECORDTYPE]/results/[REPORTTYPE]/lastTwoWeeks.[FORMAT]
    ▪ ambs/[OPERATION]/[RECORDTYPE]/results/[REPORTTYPE]/lastTwenty.[FORMAT]
    ▪ ambs/[OPERATION]/[RECORDTYPE]/get/bydate/[DATE].[FORMAT]
    ▪ ambs/[OPERATION]/results/[REPORTTYPE]/search.[FORMAT][PARAMETERS]

• POMO services were renamed to TSY (TSY Methods)
• SOMA service changes (SOMA Methods)
  o New Methods
    ▪ soma/asofdates/list.[FORMAT]
    ▪ soma/asofdates/latest.[FORMAT]
    ▪ soma/agency/get/release_log.[FORMAT]
    ▪ soma/agency/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]
    ▪ soma/agency/get/asof/[DATE].[FORMAT]
    ▪ soma/agency/get/cusip/[CUSIP].[FORMAT]
    ▪ soma/tsy/get/release_log.[FORMAT]
    ▪ soma/tsy/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]
    ▪ soma/tsy/get/cusip/[CUSIP].[FORMAT]
    ▪ soma/tsy/get/monthly.[FORMAT]
  o Removed Methods
    ▪ soma/mbs/list/release.[FORMAT]
    ▪ soma/mbs/list/asof.[FORMAT]
    ▪ soma/mbs/get/release/[DATE].[FORMAT]
    ▪ soma/non-mbs/list/release.[FORMAT]
    ▪ soma/non-mbs/list/asof.[FORMAT]
    ▪ soma/non-mbs/get/[SECURITYTYPE]/release/[DATE].[FORMAT]
    ▪ /soma/rss/feeds/release.xml
    ▪ /soma/rss/feeds/soma.xml
  o The release_log service now offers three month’s worth of data
• Consolidated RSS support (RSS Feeds)
• Beta version support (Beta Versions)
Versioning & Release

REST:
The RESTful APIs will be versioned with numeric values consisting of three integers representing major, minor and release numbers in the form of Major.Minor.Release. Each change of the numbers will be in increments of one, with the lesser significant numbers resetting to zero at changes in major and minor numbers. Details on the significance and meaning of changes in each number are detailed below.

Example:
- Major Version: 1.8.6
- Minor Version: 1.9.0
- Release Version: 1.9.1

SOAP:
The SOAP APIs are versioned with numeric values in the URL. The first number is the major release number and the second number is the minor release number.

Example:
- Major Version: http://www.newyorkfed.org/markets/.../webservice/v3_8/...
- Minor Version: http://www.newyorkfed.org/markets/.../webservice/v4_0/...

Releases:
These are the significance and meaning of changes to APIs as they relate to versioning in each number.

Changes in Release numbers
- Will maintain backward compatibility
- Should consist of bug fixes to be consistent with the published specification
- Will not contain additions or changes to the API
- Will not necessarily coincide with a new API specification

Changes in Minor numbers
- Will maintain backward compatibility
- May include bug fixes
- May include additions or changes to the API such as additional functionality, parameters or fields data while maintaining backward compatibility
- Will be released with a new API specification

Changes in Major numbers
- Does not maintain backward compatibility
- May include bug fixes
- Will include additions or changes to the API such as additional or changes to functionality, parameters or fields data that will not maintain backward compatibility
- Will be released with a new API specification
Locations

REST:
The APIs are available via HTTP. The base URLs of the APIs varies per data set.

**API Base URL**: [http://markets.newyorkfed.org/api/](http://markets.newyorkfed.org/api/)

This base applies to the following data sets:
- SOMA
- Primary Dealer Statistics
- AMBS Operations
- Treasury Operations

Example:
- [http://markets.newyorkfed.org/api/soma/mbs/get/release_log.xml](http://markets.newyorkfed.org/api/soma/mbs/get/release_log.xml)

**API Base URL**: [https://websvcgatewayx2.frbny.org/](https://websvcgatewayx2.frbny.org/)

This base applies to the following data sets:
- Reference Rates
- TOMO
- SecLending

Example:
- [https://websvcgatewayx2.frbny.org/autorates_fedfunds_external/services/v1_0/fedfunds/excel/retrieveLastN?n=25](https://websvcgatewayx2.frbny.org/autorates_fedfunds_external/services/v1_0/fedfunds/excel/retrieveLastN?n=25)
- [https://websvcgatewayx2.frbny.org/sofr-avg-ind_external_httponly/services/v1_0/sofr-avg-ind/excel/retrieveLastN?n=25&rateType=R1](https://websvcgatewayx2.frbny.org/sofr-avg-ind_external_httponly/services/v1_0/sofr-avg-ind/excel/retrieveLastN?n=25&rateType=R1)

SOAP:

WSDL for SOAP APIs
- Repo and Reverse Repo Operations
  - [http://www.newyorkfed.org/markets/omo/dmm/tomo/webservice/v3_0/tomoWS.wsdl](http://www.newyorkfed.org/markets/omo/dmm/tomo/webservice/v3_0/tomoWS.wsdl)

- Securities Lending
  - [http://www.newyorkfed.org/markets/seclend/webservice/v3_0/securitiesLendingWS.wsdl](http://www.newyorkfed.org/markets/seclend/webservice/v3_0/securitiesLendingWS.wsdl)

- TSLF
  - [http://www.newyorkfed.org/markets/tslf/webservice/v3_0/TSLFWS.wsdl](http://www.newyorkfed.org/markets/tslf/webservice/v3_0/TSLFWS.wsdl)

- CPFF
  - [http://www.newyorkfed.org/markets/cpff/webservice/v3_0/CPFFWS.wsdl](http://www.newyorkfed.org/markets/cpff/webservice/v3_0/CPFFWS.wsdl)

- FX-Rates
  - [http://www.newyorkfed.org/markets/fxrates/WebService/v1_0/FXWS.wsdl](http://www.newyorkfed.org/markets/fxrates/WebService/v1_0/FXWS.wsdl)
Parameters

REST:
Each method of the APIs may be offered in multiple formats. The formats are specified by the file extension on the method’s URL. Parameters to the API are sent via query string parameters in the standardized form. Here are some basic guidelines:

- Each parameter is sent in a name-value pair
- The name and value should be separated by an equals (=) sign
  - This may be omitted if the value is blank
- Each set of name value pairs should be separated by an ampersand (&)

Example:
- .../search.json?startdate=10/21/2020&enddate=10/22/2020&cusip=912810FT0

In some cases the API may specify required parameters to the method as part of the path. In these cases, you may replace the placeholder with the respective value as noted.

Example:
- soma/mbs/get/asof/[DATE].[FORMAT]
- soma/mbs/get/asof/2020-10-21.xml

SOAP:
Each method of the API uses SOAP for both the request and response.

Parameters to the APIs are sent using standard xml. As with any qualified xml the namespaces of the data set you are calling must be used for each request.

Example:
- https://websvcgatewayx2.frbny.org/autorates_tomo_external/services/v1_0/tomo/retrieveXml?LastN?n=25

Additional parameters may or may not be required according to the method’s specification in this document.
Response

REST:
The standard HTTP response codes will be used to handle high-level error conditions from the API. A 200 response will be the normal case. If the requested item is not found, a 404 respond will be returned.

SOAP:
A client can either get the SOAP response intended or a SOAP fault if there is an error. A typical SOAP response will be a String. The String will contain a complete XML document detailing the result.

XML Schema

SDMX v1 XML Schemas

SDMXCommon.xsd
SDMXCompactData.xsd
SDMXCrossSectionalData.xsd
SDMXGenericData.xsd
SDMXMessage.xsd
SDMXQuery.xsd
SDMXStructure.xsd
SDMXUtilityData.xsd
xml.xsd
SDMX v2.1 XML Schemas

SDMXCommon.xsd
SDMXCommonReferences.xsd
SDMXDataGeneric.xsd
SDMXDataGenericBase.xsd
SDMXDataGenericTimeSeries.xsd
SDMXDataStructureSpecific.xsd
SDMXDataStructureSpecificBase.xsd
SDMXDataStructureSpecificTimeSeries.xsd
SDMXMessage.xsd
SDMXMessageFooter.xsd
SDMXMetadataGeneric.xsd
SDMXMetadataStructureSpecific.xsd
SDMXQuery.xsd
SDMXQueryBase.xsd
SDMXQueryCategorisation.xsd
SDMXQueryCategory.xsd
SDMXQueryCodelist.xsd
SDMXQueryConcept.xsd
SDMXQueryConstraint.xsd
SDMXQueryData.xsd
SDMXQueryDataStructure.xsd
SDMXQueryDataflow.xsd
SDMXQueryHierarchicalCodelist.xsd
SDMXQueryMetadata.xsd
SDMXQueryMetadataStructure.xsd
SDMXQueryMetadataflow.xsd
SDMXQueryOrganisation.xsd
SDMXQueryProcess.xsd
SDMXQueryProvisionAgreement.xsd
SDMXQueryReportingTaxonomy.xsd
SDMXQuerySchema.xsd
SDMXQueryStructureSet.xsd
SDMXQueryStructures.xsd
SDMXRegistry.xsd
SDMXRegistryBase.xsd
SDMXRegistryRegistration.xsd
SDMXRegistryStructure.xsd
SDMXRegistrySubscription.xsd
SDMXStructure.xsd
SDMXStructureBase.xsd
SDMXStructureCategorisation.xsd
SDMXStructureCategory.xsd
SDMXStructureCodelist.xsd
SDMXStructureConcept.xsd
SDMXStructureConstraint.xsd
SDMXStructureDataStructure.xsd
SDMXStructureDataflow.xsd
SDMXStructureHierarchicalCodelist.xsd
SDMXStructureMetadataStructure.xsd
SDMXStructureMetadataflow.xsd
SDMXStructureOrganisation.xsd
SDMXStructureProcess.xsd
SDMXStructureProvisionAgreement.xsd
SDMXStructureReportingTaxonomy.xsd
SDMXStructureStructureSet.xsd
xml.xsd

REST:

*XML for Reference Rates*

*SDXML Structure (excluding SOFR Averages and Index)*
- fundRateStructure.xml

*XML Schema*
- fundRate.xsd

*Common XML Schema*
- fundRateCommon.xsd

SOAP:

*SDXML XML Schema*

SOAP Envelope
- http://schemas.xmlsoap.org/SOAP/envelope/

SOAP Encoding
- http://schemas.xmlsoap.org/SOAP/encoding/

Securities Lending
- http://www.newyorkfed.org/xml/schemas/SecLendingCross.xsd

FX Rates
- http://www.newyorkfed.org/xml/schemas/FX_Utility.xsd

CPFF Rates
- http://www.newyorkfed.org/xml/schemas/CPFFSchema.xsd

TSLF Rates
- http://www.newyorkfed.org/xml/schemas/TSLFSchema.xsd
CSV and Excel Formats
The CSV and Excel formats each start with a header row defining the columns of the data. Subsequent rows contain the data respective to the column headings.

Beta Versions
The default endpoints are backed by the latest official service implementation. When upgrades or new features are implemented, they will first be made available in beta version so that consumers may test their systems against it before it goes live. After a period of time, the beta version will replace the latest version.

To access a service beta version, preface the path with the /beta node and the request will be serviced by the beta version. So a call of:

http://markets.newyorkfed.org/api/ambs/all/results/details/latest.json

Can be executed as:

http://markets.newyorkfed.org/beta/api/ambs/all/results/details/latest.json

Not all endpoints support beta versions. The documentation will indicate where it is offered.

Authentication
No authentication is required for access to the Markets Operations API at this time.
Method List

REST:

AMBS Methods
- ambs/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/latest.[FORMAT]
- ambs/[OPERATION]/results/[REPORTTYPE]/lastTwoWeeks.[FORMAT]
- ambs/[OPERATION]/results/[REPORTTYPE]/lastTwenty.[FORMAT]
- ambs/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/get/bydate/[DATE].[FORMAT]
- ambs/[OPERATION]/results/[REPORTTYPE]/search.[FORMAT][PARAMETERS]

TSY Methods
- tsy/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/latest.[FORMAT]
- tsy/[OPERATION]/results/[REPORTTYPE]/lastTwoWeeks.[FORMAT]
- tsy/[OPERATION]/results/[REPORTTYPE]/last/[LASTAMOUNT].[FORMAT]
- tsy/[OPERATION]/results/[REPORTTYPE]/search.[FORMAT][PARAMETERS]

Primary Dealer Methods
- pd/rss/release.xml (for backwards compatibility – prefer RSS Feeds)
- pd/list/asof.[FORMAT]
- pd/list/seriesbreaks.[FORMAT]
- pd/list/timeseries.[FORMAT]
- pd/get/asof/[DATE].[FORMAT]
- pd/get/[SERIESBREAK]/timeseries/[TIMESERIES].[FORMAT]
- pd/get/[TIMESERIES].[FORMAT]
- pd/get/all/timeseries.csv

SOMA Methods
- soma/summary.[FORMAT]
- soma/asofdates/list.[FORMAT]
- soma/asofdates/latest.[FORMAT]

SOMA MBS Methods
- soma/mbs/get/release_log.[FORMAT]
- soma/mbs/get/asof/[DATE].[FORMAT]
- soma/mbs/get/cusip/[CUSIP].[FORMAT]

SOMA Non-MBS Methods
- soma/non-mbs/get/release_log.[FORMAT]
- soma/non-mbs/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]
- soma/non-mbs/get/cusip/[CUSIP].[FORMAT]
• soma/non-mbs/get/monthly.[FORMAT]

**SOMA Agency Methods**
• soma/agency/get/release_log.[FORMAT]
• soma/agency/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]
• soma/agency/get/asof/[DATE].[FORMAT]
• soma/agency/get/cusip/[CUSIP].[FORMAT]

**SOMA TSY Methods**
• soma/tsy/get/release_log.[FORMAT]
• soma/tsy/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]
• soma/tsy/get/cusip/[CUSIP].[FORMAT]
• soma/tsy/get/monthly.[FORMAT]

**EFFR Methods**
• retrieve
• retrieveLastN

**OBFR Methods**
• retrieve
• retrieveLastN

**Treasury Repo Rates Methods**
• retrieve
• retrieveLastN
SOAP:

**Repo and Reverse Repo Methods**
- getTomo
- getLatestTomo
- getTomoUpdates
- getLastNTomo

**Securities Lending Methods**
- getSecuritiesLending
- getLatestSecuritiesLending
- getLastNSecuritiesLending
- getSecuritiesLendingUpdates

**FX Rates Methods**
- getAllLatestNoonRates
- getAllNoonRates
- getLatestNoonRate
- getNoonRates

**CPFF Methods**
- getLatestCPFF
- getCPFFOneDate
- getLastNCPPFF
- getCPFF

**TSLF Methods**
- getLatestTSLF
- getTSLF
- getTSLFOneDate
- getTSLFUpdates
- getLastNTSLF
**RSS Feeds**

*Beta is supported for RSS feeds*

**pd/rss/release.xml**

**Description**

This feed provides RSS formatted information on the latest Primary Dealer Statistical releases based on as of date. The RSS feed includes a link to the released data by as of date in XML format.

This endpoint is here for backwards compatibility. Prefer the general /rss/feeds/pd URL instead.

**/rss/feeds/ambs**

**Description**

This feed provides RSS formatted information on the latest AMBS operation results. The RSS feed includes a link to the AMBS home page.

**/rss/feeds/tsy**

**Description**

This feed provides RSS formatted information on the latest Treasury operation results. The RSS feed includes a link to the Treasury home page.

**/rss/feeds/soma**

**Description**

This feed provides RSS formatted information on the latest SOMA holdings summary. The RSS feed includes a link to the SOMA home page.

**/rss/feeds/pd**

**Description**

This feed provides RSS formatted information on the latest Primary Dealer Statistical release based on as of date. The RSS feed includes a link to the released data by as of date in XML format.

All feeds adhere to the RSS-CB specification which is defined here:

Reference

REST:

AMBS Methods
Beta is supported for AMBS

ambs/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/latest.[FORMAT]

Description
Return records for the current day as specified in the path and in the format requested.

Parameters
OPERATION
Required: YES
Data Type: OPERATION
Values: all, sales, purchases

RECORDTYPE
Required: YES
Data Type: RECORDTYPE
Values: announcements, results

REPORTTYPE
Required: YES
Data Type: REPORTTYPE
Values: summary, details

FORMAT
Required: YES
Data Type: FORMAT
Values: sdmx.xml, csv, xml, xlsx, json

Response:
A list of operations returned in the requested format.

ambs/[OPERATION]/results/[REPORTTYPE]/lastTwoWeeks.[FORMAT]

Description
Returns the records for the last two weeks in the format requested. Note this is only supported for results.

Parameters
OPERATION
Required: YES
Data Type: OPERATION
Values: all, sales, purchases

REPORTTYPE
Required: YES
Data Type: REPORTTYPE
Values: summary, details

FORMAT
Required: YES
Data Type: FORMAT
Values: sdmx.xml, csv, xml, xlsx, json

Response:
A list of operations returned in the requested format.

```
ambs/[OPERATION]/results/[REPORTTYPE]/lastTwenty.[FORMAT]
```
Description
Returns the last twenty records as specified in the path and in the format requested. Note this is only supported for results.

Parameters
Required: YES
Data Type: OPERATION
Values: all, sales, purchases

REPORTTYPE
Required: YES
Data Type: REPORTTYPE
Values: summary, details

FORMAT
Required: YES
Data Type: FORMAT
Values: sdmx.xml, csv, xml, xlsx, json

Response:
A list of operations returned in the requested format.

```
ambs/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/get/bydate/[DATE].[FORMAT]
```
Description
Returns all records for a given date as specified in the path and in the format requested.
Parameters

OPERATION
Required: YES
Data Type: OPERATION
Values: all, sales, purchases

RECORDTYPE
Required: YES
Data Type: RECORDTYPE
Values: announcements, results

REPORTTYPE
Required: YES
Data Type: REPORTTYPE
Values: summary, details

DATE
Required: YES
Data Type: DATE
Values: YYYY-MM-DD

FORMAT
Required: YES
Data Type: FORMAT
Values: sdmx.xml, csv, xml, xlsx, json

Response:
A list of operations returned in the requested format.

ambs/[OPERATION]/results/[REPORTTYPE]/search.[FORMAT][PARAMETERS]

Description
Returns all records as specified in the query parameters and in the format requested. Note that only results are supported.

Parameters

OPERATION
Required: YES
Data Type: OPERATION
Values: all, sales, purchases

REPORTTYPE
Required: YES
Data Type: REPORTTYPE
Values: summary, details
FORMAT

Required: YES
Data Type: FORMAT
Values: sdmx.xml,csv,xml,xlsx,json

ADVANCED FILTER PARAMETERS

startdate

Required: No
Data Type: Date
Format: MM/DD/YYYY or YYYY-MM-DD

enddate

Required: No
Data Type: Date
Format: MM/DD/YYYY or YYYY-MM-DD

securities:

Required: No
Data Type: String
Values: TBA, Basket, Specified Pool

cusip

Required: No
Data Type: string
Values: 9 alphanumeric characters (partial included)

desc

Required: No
Data Type: string
Note: This parameter will filter the Security Description field.

Response:
A list of operations returned in the requested format.

Example:
  http://markets.newyorkfed.org/api/ambs/purchases/results/summary/lastTwenty.json
TSY Methods
Beta is supported for TSY

tsy/[OPERATION]/[RECORDTYPE]/[REPORTTYPE]/latest.[FORMAT]

Description
This method provides the latest Treasury operations.

OPERATION
- Required: YES
- Data Type: OPERATION
- Values: all, sales, purchases

RECORDTYPE
- Required: YES
- Data Type: RECORDTYPE
- Values: announcements, results, operations

REPORTTYPE
- Required: YES
- Data Type: REPORTTYPE
- Values: summary, details

FORMAT
- Required: YES
- Data Type: FORMAT
- Values: sdmx.xml, csv, xlsx, json

Response:
A list of operations returned in the requested format.

tsy/[OPERATION]/results/[REPORTTYPE]/lastTwoWeeks.[FORMAT]

Description
This method provides the last two weeks of permanent OMOs: Treasury operations from the current date.

OPERATION
- Required: YES
- Data Type: OPERATION
- Values: all, sales, purchases

REPORTTYPE
- Required: YES
- Data Type: REPORTTYPE
- Values: summary, details
FORMAT
  Required: YES
  Data Type: FORMAT
  Values: sdmx.xml, csv, xlsx, json

Response:
  A list of operations returned in the requested format.

tsy/[OPERATION]/results/[REPORTTYPE]/last/[LASTAMOUNT].[FORMAT]

Description
  This method provides the last “X” amount of Treasury operations from the current date.

OPERATION
  Required: YES
  Data Type: OPERATION
  Values: all, sales, purchases

REPORTTYPE
  Required: YES
  Data Type: REPORTTYPE
  Values: summary, details

LASTAMOUNT
  Required: YES
  Data Type: Number
  Values: 1-100

FORMAT
  Required: YES
  Data Type: FORMAT
  Values: sdmx.xml, csv, xlsx, json

Response:
  A list of operations returned in the requested format.

tsy/[OPERATION]/results/[REPORTTYPE]/search.[FORMAT][PARAMETERS]

Description
  This method provides an advanced search to retrieve Treasury operations.

OPERATION
  Required: YES
  Data Type: OPERATION
  Values: all, sales, purchases
REPORTTYPE
Required: YES  
Data Type: REPORTTYPE  
Values: summary, details

FORMAT
Required: YES  
Data Type: FORMAT  
Values: sdmx.xml, csv, xlsx, json

ADVANCED FILTER PARAMETERS

startdate
Required: No  
Data Type: Date  
Format: MM/DD/YYYY or YYYY-MM-DD  
Values: Valid date

enddate:
Required: No  
Data Type: Date  
Format: MM/DD/YYYY or YYYY-MM-DD  
Values: Valid date

securityType:
Required: No  
Data Type: String  
Values: treasury, agency, both  
Note: agency returns Agency Debt operations.

CUSIP:
Required: No  
Data Type: string  
Values: 9 alphanumeric characters (partial included)

desc:
Required: No  
Data Type: string  
Note: This parameter will filter the Security Description field.

Response:
A list of operations returned in the requested format.

Example:

- http://markets.newyorkfed.org/api/tsy/all/results/details/lastTwoWeeks.json
Primary Dealer Methods

Beta is supported for Primary Dealer

pd/list/asof.[FORMAT]

Description
Provides a list of available as of dates for primary dealer data releases paired with the associated series break.

Parameters
FORMAT
Required: YES
Data Type: FORMAT
Values: xml, csv, xlsx, json

Response:
A list of as of dates its respective series break in the requested format for use as input to other API methods.

pd/list/seriesbreaks.[FORMAT]

Description
Provides a list of available series breaks identified by label, series break id, start date and end date.

Parameters
FORMAT
Required: YES
Data Type: FORMAT
Values: xml, csv, xlsx, json

Response:
A list of series breaks in the requested format.

pd/list/timeseries.[FORMAT]

Description
Provides a list of available time series paired with the respective Series breaks for use as input to other API methods.

Parameters
FORMAT
Required: YES
Data Type: FORMAT
Values: xml, csv, xlsx, json

Response:
A list of time series and its respective Series breaks in the requested format.
**pd/get/asof/[DATE].[FORMAT]**

**Description**
Retrieves the full set of available time series data for a given as of date.

**Parameters**

**DATE**
- **Required:** YES
- **Data Type:** DATE
- **Format:** YYYY-MM-DD
- **Values:** Valid date

**FORMAT**
- **Required:** YES
- **Data Type:** FORMAT
- **Values:** xml, csv, xlsx, json, sdmx

**Response:**
A list in the requested format of Time series and its respective value for the requested as of date.

**pd/get/[SERIESBREAK]/timeseries/[TIMESERIES].[FORMAT]**

**Description**
Retrieves the full set of time series data for a given series break. A time series record is identified by as of date and value.

**Parameters**

**SERIESBREAK**
- **Required:** YES
- **Data Type:** SERIESBREAK
- **Values:** A valid series break value (e.g. SBP2001)

**TIMESERIES**
- **Required:** YES
- **Data Type:** TIMESERIES
- **Values:** A list of valid time series separated with underscores (available via the /pd/list/timeseries endpoint)

**FORMAT**
- **Required:** YES
- **Data Type:** FORMAT
- **Values:** xml, csv, xlsx, json, sdmx.xml

**Response:**
A list in the requested format of as of dates and its respective values for the requested series break and time series. A time series record is identified by as of date and value.
**pd/get/[TIMESERIES].[FORMAT]**

**Description**
Returns the values for the given time series ids across all series breaks. Series ids are separated with underscores.

**Parameters**

**TIMESERIES**
- **Required:** YES
- **Data Type:** TIMESERIES
- **Values:** A list of valid time series separated with underscores (available via the /pd/list/timeseries endpoint)

**FORMAT**
- **Required:** YES
- **Data Type:** FORMAT
- **Values:** xml, csv, xlsx, json, sdmx.xml

**Response:**
A list in the requested format of as of dates and its respective values for the requested time series. A time series record is identified by as of date and value.

**pd/get/all/timeseries.csv**

**Description**
Returns the values for all the time series. Only CSV format is supported.

**Parameters**
N/A

**Response:**
A CSV file with all as of dates and its values for all time series. A time series record is identified by its as of date and value.

**Example**
- [https://markets.newyorkfed.org/api/pd/list/seriesbreaks.json](https://markets.newyorkfed.org/api/pd/list/seriesbreaks.json)
SOMA Methods

Beta is supported for SOMA

`soma/summary.[FORMAT]`

Description
This provides a time series summary of the historical SOMA holdings.

Parameters

<table>
<thead>
<tr>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required:</td>
</tr>
<tr>
<td>Data Type:</td>
</tr>
<tr>
<td>Values:</td>
</tr>
</tbody>
</table>

Response:
A list of as of dates and the respective holdings in the requested format.

`soma/asofdates/list.[FORMAT]`

Description
This provides a list of all available as of dates available for request. These as of dates may then be used as parameters for other methods.

Parameters

<table>
<thead>
<tr>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required:</td>
</tr>
<tr>
<td>Data Type:</td>
</tr>
<tr>
<td>Values:</td>
</tr>
</tbody>
</table>

Response:
A list of as of dates in the requested format.

`soma/asofdates/latest.[FORMAT]`

Description
This provides the latest as of date.

Parameters

<table>
<thead>
<tr>
<th>FORMAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required:</td>
</tr>
<tr>
<td>Data Type:</td>
</tr>
<tr>
<td>Values:</td>
</tr>
</tbody>
</table>

Response:
The latest as of date in the requested format.

Example

- [https://markets.newyorkfed.org/api/soma/summary.json](https://markets.newyorkfed.org/api/soma/summary.json)
SOMA MBS Methods

`soma/mbs/get/release_log.[FORMAT]`
**Description**
This provides a list of the past three months of release events, including the as-of date and release date. Should an as of date be re-released for correction or otherwise it will be listed here. These as of dates may then be used as parameters for other methods.

**Parameters**
**FORMAT**
- **Required:** YES
- **Data Type:** FORMAT
- **Values:** xml, csv, json

**Response:**
A list of as of and release dates in the requested format.

`soma/mbs/get/asof/[DATE].[FORMAT]`
**Description**
This method provides the full details of the most recent MBS release as of requested date in the requested format. Please note: the as of date and release date may differ. The release offered will be the most recent release no later than the requested as of date.

**Parameters**
**FORMAT**
- **Required:** YES
- **Data Type:** FORMAT
- **Values:** xml, csv, json

**DATE**
- **Required:** YES
- **Data Type:** DATE
- **Format:** YYYY-MM-DD
- **Values:** Any valid DATE

**Response:**
The release details in the requested format.

`soma/mbs/get/cusip/[CUSIP].[FORMAT]`
**Description**
This method provides the ability to retrieve the MBS releases for a given CUSIP.
Parameters

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**CUSIP**
- Required: YES
- Data Type: string
- Values: 9 alphanumeric characters

Response:
The CUSIP holding’s details in the requested format.

Example:
- https://markets.newyorkfed.org/api/soma/mbs/get/release_log.xml

**SOMA Non-MBS Methods**

**Note:** The non-mbs methods are here for backwards compatibility only. Prefer the use of the /soma/tsy endpoints listed below, as the non-mbs endpoint will eventually be retired.

**soma/non-mbs/get/release_log.[FORMAT]**

**Description**
This provides a list of the past three months of releases, including the as of date and release date. Should an as of date be re-released for correction or otherwise it will be listed here. These as of dates may then be used as parameters for other methods.

**Parameters**

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

Response:
A list of as of and release dates in the requested format.

**soma/non-mbs/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]**

**Description**
This method provides the full details of the most recent non-MBS Release As Of requested date in the requested format. Please note: the as of date and release date may differ. The Release offered will be the most recent release no later than the requested as of date.
Parameters

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**DATE**
- Required: YES
- Data Type: DATE
- Format: YYYY-MM-DD
- Values: Valid date

**SECURITYTYPE**
- Required: YES
- Data Type: TSY-SECURITYTYPE
- Values: all, bills, notesbonds, frn, tips. Default use should be all

Response:
The Release details in the requested format.

`soma/non-mbs/get/cusip/[CUSIP].[FORMAT]`

Description
This method provides the ability to retrieve the non-MBS releases for a given CUSIP.

Parameters

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**CUSIP**
- Required: YES
- Data Type: string
- Values: 9 alphanumeric characters

Response:
The CUSIP holding’s details in the requested format.

`soma/non-mbs/get/monthly.[FORMAT]`

Description
This provides a detailed time series of the historical SOMA non-MBS holdings at monthly intervals.

Parameters

**FORMAT**
- Required: YES
Data Type: FORMAT
Values: xml, csv, json

Response:
The non-MBS release details, a set per quarter, in the requested format.

Example:

**SOMA Agency Methods**

*soma/agency/get/release_log.[FORMAT]*

**Description**
This provides a list of the past three months of agency release events, including the as-of date and release date. Should an as of date be re-released for correction or otherwise it will be listed here. These as of dates may then be used as parameters for other methods.

**Parameters**

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**Response:**
A list of as of and release dates in the requested format.

*soma/agency/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]*

**Description**
This method provides the full details of the most recent agency release as of requested date in the requested format. Please note: the as of date and release date may differ. The release offered will be the most recent release no later than the requested as of date.

**Parameters**

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**DATE**
- Required: YES
- Data Type: DATE
- Format: YYYY-MM-DD
- Values: Any valid DATE
SECURITYTYPE
Required: YES
Data Type: AGENCY-SECURITYTYPE
Values: all, agency debts, mbs, cmbs. Default use should be all.

Response:
The Release details in the requested format.

soma/agency/get/asof/[DATE].[FORMAT]
Description
This method provides the full details of the most recent agency release as of requested date in the requested format. Please note: the as of date and Release date may differ. The release offered will be the most recent release no later than the requested as of date.

Parameters
FORMAT
Required: YES
Data Type: FORMAT
Values: xml, csv, json

DATE
Required: YES
Data Type: DATE
Format: YYYY-MM-DD
Values: Any valid DATE

Response:
The release details in the requested format.

soma/agency/get/cusip/[CUSIP].[FORMAT]
Description
This method provides the ability to retrieve the agency releases for a given CUSIP.

Parameters
FORMAT
Required: YES
Data Type: FORMAT
Values: xml, csv, json

CUSIP
Required: YES
Data Type: string
Values: 9 alphanumeric characters
Response:
The CUSIP holding’s details in the requested format.

Example:

**SOMA TSY Methods**

*soma/tsy/get/release_log.[FORMAT]*

**Description**
This provides a list of the past three months of releases, including the as of date and release date. Should a as of date be re-released for correction or otherwise it will be listed here. These as of dates may then be used as parameters for other methods.

**Parameters**

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>Required</th>
<th>Data Type</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
<td>FORMAT</td>
<td>xml, csv, json</td>
</tr>
</tbody>
</table>

**Response:**
A list of as of and release dates in the requested format.

*soma/tsy/get/[SECURITYTYPE]/asof/[DATE].[FORMAT]*

**Description**
This method provides the full details of the most recent Treasury release as of requested date in the requested format. Please note: the as of date and release date may differ. The release offered will be the most recent release no later than the requested as of date.

**Parameters**

<table>
<thead>
<tr>
<th>FORMAT</th>
<th>Required</th>
<th>Data Type</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
<td>FORMAT</td>
<td>xml, csv, json</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE</th>
<th>Required</th>
<th>Data Type</th>
<th>Format</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
<td>DATE</td>
<td>YYYY-MM-DD</td>
<td>Any valid DATE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECURITYTYPE</th>
<th>Required</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
<td></td>
</tr>
</tbody>
</table>
Data Type: TSY-SECURITYTYPE
Values: all, bills, notesbonds, frn, tips. Default use should be all.

Response:
The release details in the requested format.

*soma/tsy/get/cusip/[CUSIP].[FORMAT]*

Description
This method provides the ability to retrieve the Treasury releases for a given CUSIP.

Parameters

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

**CUSIP**
- Required: YES
- Data Type: string
- Values: 9 alphanumeric characters

Response:
The CUSIP holding’s details in the requested format.

*soma/tsy/get/monthly.[FORMAT]*

Description
This provides a detailed time series of the historical SOMA Treasury holdings at monthly intervals.

Parameters

**FORMAT**
- Required: YES
- Data Type: FORMAT
- Values: xml, csv, json

Response:
The Treasury released details in the requested format.

Example:
**EFFR Methods**

**retrieve**

/retrieve

**Description**
Provides operations between the times specified.

**Parameters**

- **f** – The Date to search from
  
  Required: YES
  
  Data Type: String
  
  Format: MMDDYYYY

- **t** -- The Date to search to
  
  Required: YES
  
  Data Type: String
  
  Format: MMDDYYYY

- **typ** -- The Document type
  
  Required: YES
  
  Data Type: String
  
  Format: One of the following:
  
  [VOLUME, RATE, TARGET, DAILY_HIGH, DAILY_LOW, DAILY_AVERAGE, STANDARD_DEVIATION]

  Note: TARGET, DAILY_HIGH, DAILY_LOW, DAILY_AVERAGE, STANDARD_DEVIATION are only available prior to series break (3/1/2016)

**Response:**

An SDXML Response containing the operation detail requested.

**retrieveLastN**

/retrieveLastN

**Description**
Provides the specified number of the latest

**Parameters**

- **n** -- The number of operations requested
  
  Required: YES
  
  Data Type: String
Format: Numeric positive number (1 or more)

**typ** – The Document type

Required: YES

Data Type: String

Format: One of the following:

[VOLUME, RATE]

**Response:**

An SDXML Response containing the operation detail requested.
OBFR Methods

retriev e
/autorates_obfr_external/services/v1_0/obfr/xml/retrieve

Description
Provides operations between the times specified.

Parameters
f – The Date to search from
Required: YES
Data Type: String
Format: MMDDYYYY

t -- The Date to search to
Required: YES
Data Type: String
Format: MMDDYYYY

typ -- The Document type
Required: YES
Data Type: String
Format: One of the following:
[VOLUME, RATE]

Response:
An SDMXML Response containing the operation detail requested.

retrievelastN
/autorates_obfr_external/services/v1_0/obfr/xml/retrievelastN

Description
Provides the specified number of the latest

Parameters
n -- The number of operations requested
Required: YES
Data Type: String
Format: Numeric positive number (1 or more)
**typ** -- The Document type

Required: YES
Data Type: String
Format: One of the following:

[VOLUME, RATE]

**Response:**

An SDXML Response containing the operation detail requested.
Treasury Repo Rates Methods

Rate Mapping
The rateType parameter uses the following mapping in the API call:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>TGCR</td>
</tr>
<tr>
<td>R2</td>
<td>BGCR</td>
</tr>
<tr>
<td>R3</td>
<td>SOFR</td>
</tr>
</tbody>
</table>

retrieve
/mktrates_external_httponly/services/v1_0/mktRates/xml/retrieve

Description
Provides operations between the dates specified.

Parameters
f – The Date to search from
   Required: YES
   Data Type: String
   Format: MMDDYYYY

t -- The Date to search to
   Required: YES
   Data Type: String
   Format: MMDDYYYY

typ -- The Document type
   Required: YES
   Data Type: String
   Format: One of the following:
           [VOLUME, RATE]

rateType -- The Rate type
   Required: YES
   Data Type: String
   Format: One of the following:
           [R1,R2,R3]

Response:
An SDMXML Response containing the operation detail requested.
retrieveLastN

/mktrates_external_httponly/services/v1_0/mktRates/xml/retrieveLastN

Description
Provides the specified number of the latest rates for a particular Rate Type.

Parameters

n -- The number of operations requested
   Required: YES
   Data Type: String
   Format: Numeric positive number (1 or more)

typ -- The Document type
   Required: YES
   Data Type: String
   Format: One of the following:
            [VOLUME, RATE]

rateType -- The Rate type
   Required: YES
   Data Type: String
   Format: One or more of the following:
            [R1,R2,R3]

Response:
An SDMXML Response containing the operation detail requested.
SOFR Averages and Index

Rate Mapping

retrive

/reofr-avg-ind_external_httponly/services/v1_0/sofr-avg-ind/xml/retrieve

Provides operations between the dates specified.

Parameters

f -- The Date to search from
   Required: YES
   Data Type: String
   Format: MMDDYYYY

t -- The Date to search to
   Required: YES
   Data Type: String
   Format: MMDDYYYY

Response:
   An SDMXML Response containing the operation detail requested.

retriveLastN

/reofr-avg-ind_external_httponly/services/v1_0/sofr-avg-ind/xml/retrieveLastN

Description
   Provides the specified number of the latest rates for a particular Rate Type.

Parameters

n -- The number of operations requested
   Required: YES
   Data Type: String
   Format: Numeric positive number (1 or more)

rateType -- The Rate type
   Required: YES
   Data Type: String
   Format: [R1]

Response:
   An SDMXML Response containing the operation detail requested.
SOAP:

Repo and Reverse Repo Methods

getLatestTomo
Description
Provides the latest Repo/Reverse Repo operation

Parameters
(NONE)

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getTomo
Description
Provides Repo/Reverse Repo operations between two dates (inclusive)

Parameters
Date1
  Required: YES
  Data Type: xsd:datetime

  Date2
  Required: YES
  Data Type: xsd:datetime

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getTomoUpdates
Description
Provides Repo/Reverse Repo operations after the time specified

Parameters
startTime
  Required: YES
  Data Type: xsd:datetime
Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getLastNTomo
Description
Provides the last N Repo/Reverse Repo operations where N is the number of operations

Parameters
n
   Required: YES
   Data Type: xsd:double

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.
Securities Lending Methods

_getLatestSecuritiesLending_
Description
Provides the latest operation

Parameters
totals_or_details
  Required: YES
  Data Type: xsd:string

Response:
  A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

_getSecuritiesLending_
Description
Provides operations between two dates (inclusive). The date range cannot exceed one year.

Parameters
totals_or_details
  Required: YES
  Data Type: xsd:string
Date1
  Required: YES
  Data Type: xsd:datetime
Date2
  Required: YES
  Data Type: xsd:datetime

Response:
  A String containing an SDMXML Response or a SOAP fault containing the following error message, 'Date Range cannot exceed 1 year' if the date range exceeds one year. The SDMXML response contains the operation detail requested.

_getLastNSecuritiesLending_
Description
Provides the last N operations where N is the number of operations
Parameters

**totals_or_details**
- Required: YES
- Data Type: xsd:string

**n**
- Required: YES
- Data Type: xsd:double

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

---

**getSecuritiesLendingUpdates**

Description
Provides the updated securities lending information since a specified date

Parameters

**totals_or_details**
- Required: YES
- Data Type: xsd:string

**startTime**
- Required: YES
- Data Type: xsd:datetime

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.
**TSLF Methods**

*getLatestTSLF*

**Description**
Provides the latest operation

**Parameters**
**None**

**Response:**
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

*getTSLF*

**Description**
Provides operations between two dates (inclusive)

**Parameters**
**Date1**
Required: YES
Data Type: xsd:datetime

**Date2**
Required: YES
Data Type: xsd:datetime

**Response:**
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

*getLastNTSLF*

**Description**
Provides the last N operations where N is the number of operations

**Parameters**
**n**
Required: YES
Data Type: xsd:double
Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation
detail requested.

getTSLFUpdates
Description
Provides the updated operation information since a specified date

Parameters
startTime
   Required: YES
   Data Type: xsd:datetime

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation
detail requested.

getTSLFOneDate
Description
Provides the operation information for a specified date

Parameters
startTime
   Required: YES
   Data Type: xsd:datetime

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation
detail requested.
**CPFF Methods**

**getLatestCPFF**  
**Description**  
Provides the latest operation  

**Parameters**  
**None**  

**Response:**  
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

**getCPFF**  
**Description**  
Provides operations between two dates (inclusive)  

**Parameters**  
**Date1**  
Required: YES  
Data Type: xsd:datetime  

**Date2**  
Required: YES  
Data Type: xsd:datetime  

**Response:**  
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

**getLastNCPFF**  
**Description**  
Provides the last N operations where N is the number of operations  

**Parameters**  
**n**  
Required: YES  
Data Type: xsd:double
Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getCPFFOneDate
Description
Provides the operation information for a specified date

Parameters
startTime
   Required: YES
   Data Type: xsd:datetime

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.
FX-Rates Methods

getAllLatestNoonRates
Description
Provides the latest noon rates

Parameters
None

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getLatestNoonRate
Description
Provides the noon rate for a specific day and currency

Parameters
date1
Required: YES
Data Type: xsd:datetime
currency_code
Required: YES
Data Type: xsd:string

Response:
A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getNoonRates
Description
Provides the noon rates for a specific date range and currency

Parameters
date1
Required: YES
Data Type: xsd:datetime
date2
   Required: YES
   Data Type: xsd:datetime

currency_code
   Required: YES
   Data Type: xsd:string

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.

getAllNoonRates
Description
Provides the noon rates for a specific day

Parameters
date1
   Required: YES
   Data Type: xsd:datetime

Response:
   A String containing an SDMXML Response. The SDMXML response contains the operation detail requested.
## Version History

<table>
<thead>
<tr>
<th>Party</th>
<th>Date</th>
<th>Change Made</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOMA Portal</td>
<td>Pre-2018</td>
<td>Autorates/MOMA release information including: Repo/Reverse Repo, Securities Lending, TSLF, CPFF, FX-Rates, SOMA, POMO, EFFR, and OBFR interfaces.</td>
</tr>
<tr>
<td>MOMA Portal</td>
<td>4/3/2018</td>
<td>Updated with Treasury Repo Benchmark Rates release information.</td>
</tr>
<tr>
<td></td>
<td>1/28/2020</td>
<td>Updated with SOFR Averages and Index release information</td>
</tr>
<tr>
<td></td>
<td>10/14/2020</td>
<td>Added AMBS POMO change to TSY Updated existing SOMA and Primary Dealer Statistics Added Beta</td>
</tr>
</tbody>
</table>