



**Web API Specifications for the
TRACE Treasury Securities
File Downloads**

Version 3.1
May 15, 2023

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Revision History

| Version | Date | Changes Made |
|-----------------------------|------------------------------|---|
| Version 1.0 | October 17, 2016 | <ul style="list-style-type: none">• Original version of specification |
| Version 2.0 | April 26, 2017 | <ul style="list-style-type: none">• Eliminated 144A Indicator from Security Master File; the field is now a Reserved field. |
| Version 3.0 | June 13, 2017 | <ul style="list-style-type: none">• Modified Participant List query string, Participant Daily List query string, and Participant Daily List Delta query string so that only TRACE for Treasury participants are returned in each query and not TRACE participants as a whole. |
| Version 3.1 | May 15, 2023 | <ul style="list-style-type: none">• Updated BSYM ID definition |

Introduction

The FINRA TRACE Reporting and Quotation Service is a system developed which consolidates the various fixed income and equity reporting facilities FINRA currently maintains (e.g., TRACE, ADF, OTC Equity Reporting, etc...) into a single platform. The secure web interface offers member firms enhanced reporting and data retrieval functionality.

The Download site for Treasury securities supports clients via a Web Application Programming Interface (API) to download security master files, and daily lists.

This document pertains specifically to Treasury securities reference data. This document outlines the parameters and values for each available Treasury securities file. The data in each of these files is current as of the time of download.

Access to the File Domain

Treasury securities file downloads use the NASDAQ Web Security Framework (NWSF) for authentication (proper client authorization for access to particular files must be in place). In order to access the site and download files, a user needs to present a valid NWSF account/password and client certificate with access to the application.

The data contained in these files are maintained by FINRA Operations. For questions concerning the data, or to subscribe to receive these files, please contact FINRA Operations at (866) 776-0800 or FINRAOperations@finra.org. For technical questions or issues accessing the files, please contact FINRA Product Management at (866) 899-2107 or FINRProductManagement@finra.org.

Data is compiled from multiple sources, including but not limited to Refinitiv, S&P, Moody's, and Black Knight Technologies.

Protocol

FINRA's API download site provides access to files using standard HTTP Secure (https) protocol. It is a combination of the Hypertext Transfer protocol and the TLS protocol to provide encrypted communications and secure identification. The URL <https://download.finratrags.org> is the domain where the files reside. In order to access file reference data users should refer to the query strings detailed in this specification. Examples of actual download query strings are available in later sections of this specification.

File Availability – All Times are Approximate

| File | When Available |
|-------------------------------------|--|
| Treasury Securities Security Master | Real time starting at 7:00 a.m. ET and throughout the day until 8:00 p.m. ET |
| Daily List | Real time starting at 8:00 a.m. ET and throughout the day until 8:00 p.m. ET |
| Daily List Delta | Real time starting at 8:00 a.m. ET and throughout the day until 8:00 p.m. ET |
| Participant | Real time starting at 8:00 a.m. ET and throughout the day until 8:00 p.m. ET |
| US Agreements | Real time starting at 8:00 a.m. ET and throughout the day until 8:00 p.m. ET |
| Daily List Participant | Real time starting at 8:00 a.m. ET and throughout the day until 8:00 pm. ET |

NOTE: Users may attempt to access the files on non-business days; however, due to server maintenance which occurs on weekends and other non-business days it is possible the user will not have immediate success in access the data during these days.

URL Parameters

| Parameter | Parameter Options |
|-----------|--|
| action | DOWNLOAD - provide the complete file. DELTA – provide the changes since the last time the user downloaded the file. Delta files are supported for Security Daily List and Participant Daily List but not for the Security Master, Participant List, US Agreements. |
| Facility | TRACE |
| File | TSMaster – Security Master File for Treasury securities DAILYLISTTS – Security Daily List for Treasury Securities PARTICIPANTTS – Participant List (current TRACE for Treasury participants with active authorizations) PDAILYLISTTS – Participant Daily List (additions/deletions/changes to the Participant List for TRACE for Treasury) TSUSA – US Agreements Treasury Securities |
| day | A date, for example: 1/2/2017. Date is used for Daily List requests. |

| File | Query Parameters |
|---|---|
| Treasury Master | action= DOWNLOAD&file=TSMaster&facility=TRACE |
| Treasury Security Daily List | action=DOWNLOAD&file=DAILYLISTTS&facility=TRACE |
| Treasury Security Daily List delta (See note 1) | action=DELTA&file=DAILYLISTTS&facility=TRACE |
| Treasury Security Daily List for a specific day | action=DOWNLOAD&file=DAILYLISTTS&facility=TRACE&day=7/10/2017 |
| TRACE Participant List | action=DOWNLOAD&file=PARTICIPANTTS&facility=TRACE |
| TRACE Participant Daily List | action=DOWNLOAD&file=PDAILYLISTTS&facility=TRACE |
| TRACE Participant Daily List delta (see note 1) | action=DELTA&file=PDAILYLISTTS&facility=TRACE |
| TRACE Treasury Security US Agreements | action=DOWNLOAD&file=TSUSA&facility=TRACE |

NOTE 1: All requests are categorized and recorded. When a DELTA request is made, the time of the previous request is used to determine the items that appear in the DELTA results. The time used for the previous request is the time of request minus five minutes. This ensures that no updates are missed but it can mean items from a previous request may appear in the next DELTA request. Systems should be coded with this in mind.

File Definitions - All Files are Pipe Delimited

TRACE for Treasury Securities Security Master Files

| Field Name (Header) | Description | Comments | Maximum Length |
|----------------------|---|---|-----------------------|
| SYM_CD | FINRA assigned Symbol | | 14 |
| CUSIP_ID | CUSIP | This field will be blank for firms that do not have a CUSIP license in place. | 9 |
| BSYM_ID | <u>FIGI/Financial Instrument Global Identifier-Bloomberg Symbol</u> | | 12 |
| SUB_PRDCT_TYPE | Sub-Product Type Code | Valid values are: BILL – <i>Treasury Bill</i> NOTE – <i>Bonds and Notes</i> STRP – <i>Strips</i> TIPS - <i>TIPS</i> | 5 |
| ISSUER_NM | Issuer Name | | 80 |
| SCRTY_DS | Security Description | | 80 |
| CPN_RT | Coupon Rate | Decimal format | 27 (19 after decimal) |
| CPN_TYPE_CD | Coupon Type Code | <i>Please see Appendix 1 for a list of Coupon Type Code / Descriptions</i> | 10 |
| MTRTY_DT | Maturity Date | YYYYMMDD format. | |
| GRADE | Grade | H – High Yield; I – Investment Grade | 1 |
| RESERVED2 | Filler | Blank field - reserved for future use. | |
| RESERVED3 | Filler | Blank field - reserved for future use. | |
| RESERVED4 | Filler | Blank field – reserved for future use. | 1 |
| DISSEM | Trade Report Disseminator Indicator | Y = Indicates trade reports will be disseminated N= Indicates trade reports will not be disseminated | 1 |
| Benchmark Start Date | | YYYYMMDD format. | |
| Benchmark End Date | | YYYYMMDD format. | |

TRACE for Treasury Securities Daily List (for Securities)

| Field Name (Header) | Description | Comments | Maximum Length |
|---------------------|---|---|-----------------------|
| DAILY_LIST_DT | Daily List Date | YYYYMMDD format. | |
| DAILY_LIST_TIME | Daily List Time | HH:MM:SS | |
| DAILY_LIST_EVENT_CD | Daily List Event Type | Valid values are: SA <i>Security Add</i> SD <i>Security Delete</i> SC <i>Security Change</i> | 2 |
| DAILY_LIST_RSN_CD | Daily List Reason | Reason for the addition, deletion or change. This field may be blank. <i>Please see Appendix 2 for a list of Daily List Reason Codes / Descriptions</i> | 5 |
| CMMNT_TX | Event Comment | Free form text field entered by FINRA Operations. May be blank. | 30 |
| EFCTV_DT | Effective Date | Reflects effective date for the event affected in the record. | |
| PROD_TYPE | Product Type | Constant "TS". | |
| SYM_CD | FINRA Symbol | | 14 |
| CUSIP | | This field will be blank for firms that do not have a CUSIP license in place. | 9 |
| BSYM_ID | FIGI/Financial Instrument Global Identifier Bloomberg Symbol | | 12 |
| SCRTY_DS | Security Description | | 250 |
| ISSUER_NM | Issuer Name | | 255 |
| CPN_RT | Coupon Rate | Decimal format | 27 (19 after decimal) |
| MTRTY_DT | Maturity Date | YYYYMMDD format. | |
| SUBPROD_TYPE | Sub-Product Type | Valid values are: BILL – <i>Treasury Bill</i> NOTE – <i>Bonds and Notes</i> STRP – <i>Strips</i> TIPS - <i>TIPS</i> Note: Changes to Sub- Product values will be administered by a Delete then Add Daily List event. | 5 |
| NEW_SYM_CD | New Symbol | Applicable to Change Event | 14 |

| Field Name (Header) | Description | Comments | Maximum Length |
|---------------------|--|--|-----------------------|
| | | Types only. Will be blank on Add and Delete Events. | |
| NEW_CUSIP | New CUSIP | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 9 |
| NEW_BSYM_ID | New FIGI/Financial Instrument Global Identifier Bloomberg Symbol | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 12 |
| NEW_SCRTY_DS | New Security Description | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 250 |
| NEW_ISSUER_NM | New Issuer | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 255 |
| NEW_CPN_RT | New Coupon Rate | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 27 (19 after decimal) |
| NEW_MTRTY_DT | New Maturity Date | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | |
| NEW_SUBPROD_TYPE | New Sub Product Type | Applicable to Change Event Types only. Will be blank on Add and Delete Events. | 5 |

TRACE for Treasury Participant List

| Field Name (Header) | Description | Comments | Maximum Length |
|---------------------|-------------------------------|---|----------------|
| mpid | Market Participant Identifier | FINRA identifier assigned to the Treasury participant | 6 |
| dba_nm | Firm Name | | 64 |

TRACE for Treasury Participant Daily List

| Field Name (Header) | Description | Comments | Maximum Length |
|---------------------|--------------------|---|----------------|
| list_dt | Daily List Date | MMDDYYYY format | |
| effective_dt | Effective Date | MMDDYYYY format | |
| cd_description | Event Type | Valid values are: Participant Addition Participant Deletion Participant Change | |
| old_mpid | Market Participant | | 6 |

| Field Name (Header) | Description | Comments | Maximum Length |
|---------------------|-----------------------------------|----------------------------|----------------|
| | Identifier | | |
| old_dba | Firm Name | | 64 |
| new_mpid | New Market Participant Identifier | | 6 |
| new_dba | New Firm Name | | 64 |
| rf_cd | Reporting Facility | Value will always be TRACE | |

TRACE for Treasury Securities US Agreements File

| Field Name (Header) | Description | Comments | Maximum Length |
|------------------------|---|---|----------------|
| MPID | MPID of the Client | FINRA identifier assigned to the participant. | 6 |
| AGRMT_EFCTV_DT | Effective Date for the agreement with the client | Format is YYYYMMDDHHMMSS | 14 |
| AGRMT_XPRTN_DT | End date for agreement with the client | Format is YYMMDDHHMMSS | 12 |
| UNFRM_SRVC_AGRMT_MP_ID | MPID of client with who agreement is based | FINRA identifier assigned to the participant. | 6 |
| US_GIVEUP_DROP_FL | Give Up firm receives drop copies of transaction messages | Y or N. | |

Example Requests

Example 1 - Get the current TRACE for Treasury Participant List

This request retrieves the current list of TRACE for Treasury authorized Participants:

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=PARTICIPANTTS&facility=TRACE>

Example 2 - Get the TRACE for Treasury Participant Daily List for 7/10/2017

This request retrieves the list of changes to TRACE for Treasury authorized Participants published on 5/1/2017 (note 7/10/2017 is used as an example. Any specific date may be used):

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=PDAILYLISTTS&facility=TRACE&day=7/10/2017>

Example 3 - Get today's TRACE for Treasury Participant Daily List (no day provided)

This request retrieves the current day's cumulative list of changes to TRACE for Treasury authorized Participants:

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=PDAILYLISTTS&facility=TRACE>

Example 4 - Get changes to the TRACE for Treasury Participant Daily List since the last download (no day provided)

This request retrieves the latest list of changes to TRACE for Treasury authorized Participants since the last user download of the Participant List:

<https://download.finratraqs.org/DownloadHandler.ashx?action=DELTA&file=PDAILYLISTTS&facility=TRACE>

Example 5 - Get the current Treasury Security Master file

This request retrieves the current list of all Treasury securities eligible for trade reporting:

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=TSMMASTER&facility=TRACE>

Example 6 - Get today's TS Daily List (no day provided)

This request retrieves the current day's cumulative list of changes to all the Treasury Security Master data.

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=DAILYLISTTS&facility=TRACE>

Sample Results

TRACE for Treasury Securities Security Master File illustrating the header and footer

```
SYM_CD|CUSIP_ID|BSYM_ID|SUB_PRDCT_TYPE|ISSUER_NM|SCRTY_DS|CPN_RT|CPN_TYPE_CD|MTRTY_DT|GRADE|RESERVED2|RESERVED3|RESERVED4|DISSEM|Benchmark Start Date|Benchmark End Date
TSRYS4493660|912796JE0|BBG00CBVNNC3|BILL|UNITED STATES TREASURY|United States Treasury Bill|0.00000000000000000000|DSC|20170302|I||||N|20160830|20160906
TSRYS4493662|912796JP5|BBG00CS9FQW4|BILL|UNITED STATES TREASURY|United States Treasury Bill|0.00000000000000000000|DSC|20170427|I||||N|20170329|20170404
TSRYS4493663|912796JT7|BBG00CXJXJ52|BILL|UNITED STATES TREASURY|United States Treasury Bill|0.00000000000000000000|DSC|20170525|I||||N|20170426|20170502
TSRYS4493664|912796JX8|BBG00D3CKKX8|BILL|UNITED STATES TREASURY|United States Treasury Bill|0.00000000000000000000|DSC|20170622|I||||N|20170524|20170530
TSRYS4493667|912796KG3|BBG00DK4LV71|BILL|UNITED STATES TREASURY|United States Treasury Bill|0.00000000000000000000|DSC|20170209|I||||N|20160809|20160815
...
[snip]
...
TSRYS5587029|912803GT4||STRP|UNITED STATES TREASURY|United States Treasury Security Stripped Principal Payment|0.00000000000000000000|STR|20430515|I||||N||
Footer - Count: 00002466, Facility: TRACE, File Created: 20230512151551
```

TRACE for Treasury Securities Daily List File illustrating the header and footer

```
DAILY_LIST_DT|DAILY_LIST_TIME|DAILY_LIST_EVENT_CD|DAILY_LIST_RSN_CD|CMMNT_TX|E FCTV_DT|PROD_TYPE|SYM_CD|CUSIP|BSYM_ID|SCRTY_DS|ISSUER_NM|CPN_RT|MTRTY_DT|SUBPRD_TYPE|NEW_SYM_CD|NEW_CUSIP|NEW_BSYM_ID|NEW_SCRTY_DS|NEW_ISSUER_NM|NEW_CPN_RT|NEW_MTRTY_DT|NEW_SUBPRD_TYPE
20230505|16:27:42|SA||New Security
TS|20230505|TS|TSRYS5584396|912797GS0||United States Treasury Bill|UNITED STATES TREASURY|0.00000000000000000000|20230914|BILL|||||||
...
[snip]
...
20230505|16:27:42|SA||New Security
TS|20230505|TS|TSRYS5584399|912797FH5||United States Treasury Bill|UNITED STATES TREASURY|0.00000000000000000000|20240516|BILL|||||||
Footer - Count: 00000004, Facility: TRACE, File Created: 20230512154347
```

TRACE for Treasury Participant Daily List File illustrating the header and footer

```
list_dt|effective_dt|cd_description|old_mpid|old_dba|new_mpid|new_dba|rf_cd
09/09/2010|09/09/2010|Participant Addition||HRBC|hurleyf test HRBC
mppweb|OTCE
09/09/2010|09/09/2010|Participant Addition|ABNE|ABNE TEST||TRACE
09/09/2010|09/09/2010|Participant Addition|ABNF|ABNF TEST||TRACE
09/09/2010|09/09/2010|Participant Addition|ABNB|ABN AMRO CLEARING CHICAGO
LLC||TRACE
09/09/2010|09/09/2010|Participant Addition|ABNC|ABNC TEST||TRACE
...
[snip]
...
09/09/2010|09/09/2010|Participant Deletion|AALC|THRIVENT INVESTMENT
MANAGEMENT CO2||TRACE
Footer - Count: 00000014, Facility:TRACE, File Created: 20100910120732
```

TRACE for Treasury Participant List File illustrating the header and footer

```
mpid|dba_nm
AAAA|TEST
ABLE|NATIXIS BLEICHROEDER INC.
ABNA|ABN AMRO SECURITIES (USA) LLC
ABNB|ABN AMRO CLEARING CHICAGO LLC
ABNC|ABNC TEST
ABND|ABND TEST
ABNE|ABNE TEST
ABNG|ABNG TEST
ABPI|PAVEK INVESTMENTS INC.
...
[snip]
...
QUAL|QUAYLE & CO. SECURITIES
ROCK|ROCKWELL GLOBAL CAPITAL LLC
SCHO|SCHOFF & BAXTER, INC.
TMBR|TIMBER HILL LLC
UBSS|UBS SECURITIES LLC
WONG|A B WONG CAPITAL LLC
WTCO|WILLIAMS TRADING LLC
Footer - Count: 00000089, Facility: TRACE, File Created: 20100910121322
```

Appendices

Note: all codes/descriptions in the following appendices are subject to updates as necessary.

Appendix 1 - Treasury Securities Coupon Type Codes and Descriptions

| Coupon Type Code | Coupon Type Description |
|------------------|-------------------------|
| DSC | Discount/Zero Coupon |
| FIX | Fixed Coupon |
| FLT | Floating Coupon |
| RNG | Range Coupon |
| STR | Stripped Coupon |
| TBP | To Be Priced Coupon |
| UNK | Unknown |
| VAR | Variable Coupon |

Appendix 2 - Daily List Update Reason Codes and Descriptions

| Update Reason Code | Update Reason Description |
|--------------------|----------------------------------|
| <i>blank</i> | <i>No reason given</i> |
| MOT | Moved from OTCE |
| DNY | Delisted from NYSE |
| DAX | Delisted from AMEX |
| DAR | Delisted from ARCA |
| DNQ | Delisted from NASDAQ |
| DEX | Delisted from Exchange |
| ISV | Ineligible – Sovereign |
| ICD | Ineligible – CD |
| ICR | Ineligible – Currency |
| IMM | Ineligible – Money Market |
| ITR | Ineligible – Treasury |
| IAI | Ineligible – Accredited Investor |
| IRS | Ineligible – Other |
| BR | Bankruptcy |
| LIQ | Liquidation |
| CAL | Called |
| RED | Redeemed |
| EXC | Exchanged |
| CAN | Cancelled |
| A/M | Acquisition/Merger |
| MAT | Matured |
| LNQ | Listed on the NYSE |
| LAR | Listed on the NYSE ARCA |
| LAX | Listed on AMEX |
| LNQ | Listed on NASDAQ |
| LCB | Listed on CBOE |
| ROB | Reportable to the OTCBB |

| Update Reason Code | Update Reason Description |
|---------------------------|---------------------------------------|
| RON | Reportable on the OTC NBB |
| RMS | Reportable to the MSRB |
| 12J | 12(j) Registration Revoked by the SEC |
| RNC | Regulatory Non Compliance |
| OTH | Other * |

*where OTH is used, please refer to the Event Comments field in the file (CMMNT_TX) for additional information.

Programmatic Access Example (C#, .NET)

The following is a code excerpt to illustrate how to use the MPP Download site programmatically. If you are going to access the site with an application the first step is to download the NWSF client certificate using your web browser. Install it in the browser then export the certificate from the browser, saving the certificate to a location on the machine as an X905 certificate (.cer).

Example using the TS Security Master:

```
string Action = "DOWNLOAD";
string file = "TSMMASTER";
string facility = "TRACE";

string site = "https:// download.finratraqs.org/DownloadHandler.ashx";
string query = string.Format("{0}?action={1}&file={2}&facility={3}", site,
                             Action, file, facility);

// Create request
HttpWebRequest webRequest = WebRequest.Create(query) as HttpWebRequest;

// Get cert and add to request
X509Certificate Cert =
    X509Certificate.CreateFromCertFile("C:\\MPP\\cert\\mpp_cert.cer");

webRequest.ClientCertificates.Add(Cert);
webRequest.Method = "GET";

// Add nwsf user/password to request
NetworkCredential nwCredentials = new NetworkCredential("user", "pwd");
webRequest.Credentials = nwCredentials;

// Make the request
HttpWebResponse Response = (HttpWebResponse)webRequest.GetResponse();

// Fiddle with the header in the response to get the file name
int pos = Response.Headers["Content-Disposition"].IndexOf("TRACE");

string Filename = Response.Headers["Content-Disposition"].Substring(pos);

// Create a file to save it in ..
StreamWriter sw = new StreamWriter("C:\\MPP\\files\\" + Filename, false);

StreamReader sr = new StreamReader(Response.GetResponseStream(),
                                   Encoding.Default);

int cnt;
char [] ReadBuf = new char[1024];

while ((cnt = sr.Read(ReadBuf, 0, 1024)) != 0)
{
    sw.Write(ReadBuf);
}
```