



Web API Specifications for the TRACE Securitized Products File Downloads

Version 3.3

December 21, 2012

Revision History

Version/Date	Changes Made
Version 1.1/April 20, 2011	<ul style="list-style-type: none"> • Clarification regarding access to files in Protocol section • Listed times for production access to files • Effective Date populated for security additions as well as deletes and changes • “MDYS_RTNG” field changed to “Reserved 3” • Grade field will not contain data; it will be blank filled • 144A field will be “Y or “N” and not blank filled • Appendix 1 - Amended Sub-Product Asset Codes
Version 1.2/June 23, 2011	<ul style="list-style-type: none"> • Appendix 1 - Amended Sub-Product Asset Codes • Maximum Field Lengths included in file tables
Version 2.0/ January 23, 2012	<ul style="list-style-type: none"> • Participant Daily List - list_dt format changed to MMDDYYYY format • Participant Daily List - effective_dt format changed to MMDDYYYY format • Participant Daily List - cd_description values changed to: Participant Addition Participant Deletion Participant Change <p>Sub Product Asset Code – Added SMBA</p>
Version 3.0/March 20, 2012	<ul style="list-style-type: none"> • Include a Daily List Timestamp in all Daily List events • Include BSYM (Bloomberg Symbol) in Master File • Include BSYM and NEW BSYM in Daily List Files • Include Tranche ID and New Tranche ID in Daily List Files •
Version 3.1/July 6, 2012	<ul style="list-style-type: none"> • Modify Appendix 1 - TBA Sub Product Asset Codes and Descriptions
Version 3.2/September 4, 2012 (In production November 5, 2012)	<ul style="list-style-type: none"> • Addition of Closing Price File for TBA Sub Product
Version 3.2 production date modified to November 12, 2012	
Version 3.3/December 21, 2012	Added TBA Coupon Code R (Fixed Rate Reverse)

Introduction

The FINRA Trade Reporting and Quotation Service (TRAQS™) is a new system currently being developed by FINRA. TRAQS will consolidate the various fixed income and equity reporting facilities FINRA currently maintains (e.g., TRACE, ADF, OTC Equity Reporting, etc) into a single platform. The new TRAQS web interface will offer member firms enhanced reporting and data retrieval functionality. Note: TRAQS does not replace TRACE as the primary FINRA fixed income trade reporting facility. TRACE will continue to exist and support firms for their fixed income reporting capabilities. TRAQS is merely the core system which consolidates FINRA transaction activity.

The TRAQS Download site supports client needs via Web Application Programming Interface (API) to download daily lists, security master files and files of authorized participants.

FINRA will implement the various 'products in phases, starting with Securitized Products (SP)¹. This document outlines the parameters and values for each available SP file. The data in each of these files is current as of the time of download.

Access to the file domain

SP 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 Security Masters, Daily Lists and Participant Lists are maintained by FINRA Operations. For questions concerning the data in these files, 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 FINRAProductManagement@finra.org.

¹ As stated in Regulatory Notice 10-55 (October 2010), effective May 16, 2011, member firms will be required to report trades in asset-backed securities, mortgage-backed securities and other similar securities, collectively defined hereinafter as Securitized Products (SP), to TRACE.

Protocol

FINRA's TRAQS download site provides access to files using standard HTTP Secure (https) protocol. It is a combination of the Hypertext Transfer protocol and the SSL/TLS protocol to provide encrypted communications and secure identification. The URL <https://download.finratraqs.org> is the domain where the files reside. In order to access file reference data users should refer to the query string detailed on page 4 of this specification. Examples of actual download query strings are available on page 10 of this specification.

File availability – all times are approximate

File	Time
Start of day security master files	7:00 a.m. ET
Security master and daily list updates	Beginning at 8:00 a.m. ET and continuing throughout the day – near real-time
Final possible security master and daily list updates	8:00 p.m. ET

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	<p>DOWNLOAD - provide the complete file. DELTA – provide the changes since the last time the user downloaded the file.</p> <p>Delta files are supported for Security Daily List and Participant Daily List but not for the Security Masters or Participant List.</p>
Facility	TRACE
File	<p>PARTICIPANT – Participant List (current participants with active authorizations for the specified facility) PDAILYLIST – Participant Daily List (additions/deletions/changes to the Participant List of the specified facility) DAILYLISTSP – Security Daily List for Securitized Products ABSMASTER – ABS Security Master CMOMASTER – CMO Security Master TBAMASTER – TBA Security Master</p> <p>MBS Security Master, available as subsets (based on the issuing Agency):</p> <ul style="list-style-type: none"> MBSSMBA – MBS Security Master, Small Business Administration (SBA) MBSFHLM – MBS Security Master, Federal Home Loan Mortgage Corporation (Freddie Mac) MBSFNMA – MBS Security Master, Federal National Mortgage Association (Fannie Mae) MBSGNM1 – MBS Security Master, Government National Mortgage Association (Ginnie Mae 1) MBSGNM2 – MBS Security Master, Government National Mortgage Association (Ginnie Mae 2) <p>CLOSSP – Closing Report File</p>
day	<p>A date, for example: 6/1/2011. Date is only used for Daily List and Closing Report requests. If no date is specified on a daily list or closing report request then the current day is assumed.</p>

File	Query Parameters
SP ABS Master	action= DOWNLOAD &file=ABSMASER&facility=TRACE
SP CMO Master	action= DOWNLOAD &file=CMOMASTER&facility=TRACE
SP TBA Master	action= DOWNLOAD &file=TBAMASTER&facility=TRACE
MBS Master – SBA	action= DOWNLOAD &file=MBSSMBA&facility=TRACE
MBS Master – Freddie Mac	action= DOWNLOAD &file=MBSFHLM&facility=TRACE
MBS Master – Fannie Mae	action= DOWNLOAD &file=MBSFNMA&facility=TRACE
MBS Master – Ginnie Mae 1	action= DOWNLOAD &file=MBSGNM1&facility=TRACE
MBS Master – Ginnie Mae 2	action= DOWNLOAD &file=MBSGNM2&facility=TRACE
TRACE Participant Daily List	action=DOWNLOAD&file=PDAILYLIST&facility=TRACE
SP Security Daily List	action=DOWNLOAD&file=DAILYLISTSP&facility=TRACE
SP Security Daily List delta (See note 1)	action=DELTA&file=DAILYLISTSP&facility=TRACE
TRACE Participant Daily List delta (see note 1)	action=DELTA&file=PDAILYLIST&facility=TRACE
SP Security Daily List for a specific day	action=DOWNLOAD&file=DAILYLISTSP&facility=TRACE&day=5/16/2011
TRACE Participant List	action=DOWNLOAD&file=PARTICIPANT&facility=TRACE
Closing Report File	action=DOWNLOAD&file=CLOSSP&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 files.

Securitized Products 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	Bloomberg Symbol		12
POOL_NB	Pool Number	Used in MBS Master Files. Will be blank on ABS, CMO and TBA Master Files.	6
MSTR_DEAL_ID	Master Deal ID	Used in ABS and CMO Master Files. Will be blank on MBS and TBA Master Files.	50
TRNCH_NB	Tranche ID	Used in ABS and CMO Master Files. Will be blank on MBS and TBA Master Files.	20
SUB_PRDCT_TYPE	Sub-Product Type Code	Valid values are: ABS <i>Asset-Backed Securities</i> CMO <i>Collateralized Mortgage Obligations</i> MBS <i>Mortgage-Backed Securities</i> TBA <i>To Be Announced</i>	5
SCRTY_SBTP_CD	Sub-Product Asset Code	<i>Please see Appendix 1 for a list of Sub Product Asset Code / Descriptions</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 2 for a list of Coupon Type Code / Descriptions</i>	10
INTRS_TYPE_CD	Interest Type Code	Used in ABS and CMO Master Files.	10

Field Name (Header)	Description	Comments	Maximum Length
		Will be blank on MBS and TBA Master Files. <i>Please see Appendix 3 for a list of Interest Type Code / Descriptions</i>	
TRD_RPT_EFCTV_DT	Trade Report Effective Date	YYYYMMDD format.	
MTRTY_DT	Maturity Date	YYYYMMDD format. Used in ABS, CMO and MBS Master Files. Will be blank on TBA Master Files.	
TBA_STLMT_CD	TBA Settlement Month	Two digit value representing the month. Used in TBA Master Files. Will be blank on ABS, CMO and MBS Master Files. <i>Please see Appendix 4 for a list of TBA Settlement Codes / Months</i>	
GRADE	Grade	Will be blank filled	1
RESERVED3	Filler	Blank field - reserved for future use.	
IND_144A	144A Indicator	Y = Indicates a 144A security N = Not a 144A security	1
RESERVED2	Filler	Blank field - reserved for future use.	

Securitized Products 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 5 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 "SP".	
SYM_CD	FINRA Symbol		14
CUSIP		This field will be blank for firms that do not have a CUSIP license in place.	9
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. Valid for ABS, CMO and MBS securities. Will be blank on TBA securities.	
TBA_STLMT_CD	TBA Settlement Month	Two digit value representing the month. Used in Sub-Product Type TBA if there is a change to Settlement Month.	

Field Name (Header)	Description	Comments	Maximum Length
		<i>Please see Appendix 4 for a list of TBA Settlement Codes / Months</i>	
BSYM_ID	Bloomberg Symbol		12
POOL_NB	Pool Number	Valid for MBS securities only. Will be blank on ABS, CMO and TBA securities.	6
TRNCH_NB	Tranche ID	Used in ABS and CMO Master Files. Will be blank on MBS and TBA Master Files.	20
SUBPROD_TYPE	Sub-Product Type	Valid values are: ABS <i>Asset-Backed Securities</i> CMO <i>Collateralized Mortgage Obligations</i> MBS <i>Mortgage-Backed Securities</i> TBA <i>To Be Announced</i>	5
TRD_RPT_EFCTV_DT	Trade Report Effective Date	YYYYMMDD format. Will be blank on Delete Event Types.	
NEW_SYM_CD	New Symbol	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	14
NEW_CUSIP	New CUSIP	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	9
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	255

Field Name (Header)	Description	Comments	Maximum Length
		Delete Events.	
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_TBA_STLMT_CD	New TBA Settlement Month	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	
NEW_BSYM_ID	New Bloomberg Symbol	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	12
NEW_POOL_NB	New Pool Number	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	6
NEW_TRNCH_NB	New Tranche ID	Used in ABS and CMO Master Files. Will be blank on MBS and TBA Master Files.	20
NEW_SUBPROD_TYPE	New Sub Product Type	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	5
NEW_TRD_RPT_EFCTV_DT	New Trade Report Effective Date	Applicable to Change Event Types only. Will be blank on Add and Delete Events.	

TRACE Participant List

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

TRACE 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: PA Participant Addition PD Participant Deletion PC Participant Change	
old_mpid	Market Participant Identifier		6
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	

Securitized Products Closing Report

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	Bloomberg Symbol		12
SUB_PRODUCT		TBA; ABS; CMO; MBS	5
HIGH_PRICE	High Price		10
LOW_PRICE	Low Price		10
CLOSING_PRICE	Closing Price		10
TRADE_DATE	Trade Date for the record's prices	Closing price date in mm/dd/yyyy format	

Example Requests

Ex 1 - Get the current TRACE Participant List

This request retrieves the current list of TRACE authorized Participants:

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

Ex 2 - Get the TRACE Participant Daily List for 5/16/2011

This request retrieves the list of changes to TRACE authorized Participants published on 5/16/2011 (*note 5/6/2011 is used as an example. Any specific date may be used*):

<https://download.finratraqs.org/DownloadHandler.ashx?action=DOWNLOAD&file=PDAILYLIST&facility=TRACE&day=5/16/2011>

Ex 3 - Get today's TRACE Participant Daily List (no day provided)

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

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

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

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

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

Ex 5 - Get the current SP CMO Security Master file

This request retrieves the current list of all CMO Securities for Securitized Products:

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

Ex 6 - Get the current SP Fannie Mae Security Master file

This request retrieves the current list of all Fannie Mae MBS Securities:

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

Ex 7 - Get today's SP Daily List (no day provided)

This request retrieves the current day's cumulative list of changes to all the Securitized Products Security Masters (ABS, CMO, MBS and TBA data is contained in one file):

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

Ex 8 - Get the SP Closing Report (no day provided)

This request retrieves the closing prices for SP securities.

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

Sample Results

TRACE Participant Daily List File from 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
```

SP Security Daily List File from illustrating the header and footer.

```
DAILY_LIST_DT|DAILY_LIST_EVENT_CD|DAILY_LIST_RSN_CD|CMMNT_TX|EFCTV_DT|PROD_TYPE|SYM_CD|CUSIP|SCRT
Y_DS|ISSUER_NM|CPN_RT|MTRTY_DT|TBA_STLMT_CD|RESERVED1|POOL_NB|SUBPROD_TYPE|TRD_RPT_EFCTV_DT|NEW_S
YM_CD|NEW_CUSIP|NEW_SCRTY_DS|NEW_ISSUER_NM|NEW_CPN_RT|NEW_MTRTY_DT|NEW_TBA_STLMT_CD|RESERVED2|NEW
_POOL_NB|NEW_SUBPROD_TYPE|NEW_TRD_RPT_EFCTV_DT
2011-02-08|SC||Changed cusip for testing|2011-02-07|SP|ABCDE1451318|00764MBE6|AABST 041 M2 Mezz
Seq Flt AEGIS ASSET BACKED SECURITIES TRUST Mortgage Pass-|Testing ID|1.610000|2034-04-
25|N|CMO|2011-02-02|ABCDE1451318|00764MZZ1|AABST 041 M2 Mezz Seq Flt AEGIS ASSET BACKED
SECURITIES TRUST Mortgage Pass-|Testing ID|1.610000|2034-04-25||Y||CMO|2011-02-02
2011-02-08|SA|blk|Not applicable|2011-02-08|SP|ACADIA3279381|ACADIA777|ACADIA FINANCIAL
Commercial M ACADIA777-DEAL-001|ACADIA FINANCIAL SECURITIES ISSUER|0.555555|2016-02-
29|N|ABS|2011-02-08|||||||||
2011-02-08|SA|MOT|Will be added by Amit|2011-02-08|SP|ACADIA3279382|ACADIA776|ACADIA FINANCIAL
TEST TEST TEST - GNMA|ACADIA FINANCIAL SECURITIES ISSUER|0.777700||Y||TBA|2011-02-08|||||||||
2011-02-08|SA|MTR|Not applicable|2011-02-08|SP|ACADIA3279383|ACADIA753|ACADIA FINANCIAL TEST
TEST ALL CHAR ~!@#%&*()_+={}:";'<>?./ \|ACADIA FINANCIAL SECURITIES ISSUER|1.111110|2111-
09-07||Y|97|MBS|2011-02-08|||||||||
2011-02-08|SA|DAX|NA|2011-02-08|SP|ACADIA3279384|ACADIA555|ACADIA FINANCIAL SECURITIES T
ACADIA555 DEAL ***123***|ACADIA FINANCIAL SECURITIES ISSUER|11.222000|2016-09-07|N|CMO|2011-02-
08|||||||||
2011-02-08|SC||Trade Report Effective date.|2011-02-07|SP|AIMO1453654|008894AA5|AIMCO 00A A Sr
Seq Flt AIMCO CDO, Series 2000-A Corp2000-A|AIMCO CDO|7.065000|2012-08-22||Y||ABS|2011-02-
02|AIMO1453654|008894AA5|AIMCO 00A A Sr Seq Flt AIMCO CDO, Series 2000-A Corp2000-A|AIMCO
CDO|7.065000|2012-08-22|N|ABS|2011-02-08
Footer - Count: 00000006, Facility: TRACE, File Created: 20110217164317
```


SP Security Master File from illustrating the header and footer.

```

SYM_CD|CUSIP_ID|RESERVED1|POOL_NB|MSTR_DEAL_ID|TRNCH_NB|SUB_PRDCT_TYPE|SCRTY_SBTP_CD|ISSUER_NM|SC
RTY_DS|CPN_RT|CPN_TYPE_CD|INTRS_TYPE_CD|TRD_RPT_EFCTV_DT|MTRTY_DT|TBA_STLMT_CD|GRADE|RESERVED2|IN
D_144A|RESERVED3
|151608AA4|||1|ABS|ABSY||CPTFDG 101 N Sr
Fix|5.430000000000000000|FIX||01/07/2011|07/20/2016||H|A2|Y|
|228215AB5|||1|ABS|CDO||CROWN 021 A1 Sr Seq
Flt|0.810600000000000000|FLT||01/07/2011|01/22/2013||H|WR|N|
|228215AC3|||2|ABS|CDO||CROWN 021 A2 Sr Seq Flt||FLT||01/07/2011|01/22/2013||H|WR|Y|
|228215AE9|||3|ABS|CDO||CROWN 021 B Sub Seq Flt||FLT||01/07/2011|01/22/2013||H|WR|Y|
|228215AG4|||4|ABS|CDO||CROWN 021 C Sub Seq Flt||FLT||01/07/2011|01/22/2013||H|WR|Y|
|228215AJ8|||5|ABS|CDO||CROWN 021 D Sub Seq Flt||FLT||01/07/2011|01/22/2013||H|WR|Y|
|228215AL3|||6|ABS|CDO||CROWN 021 E Sub Seq Flt||FLT||01/07/2011|01/22/2013||H|WR|Y|
|26156XAA2|||1|ABS|CDO||DRCCBO 1 A1A Sr Seq
Flt|0.999800000000000000|FLT||01/07/2011|11/01/2011||H|Aaa|N|
|26156XAB0|||2|ABS|CDO||DRCCBO 1 A11 Sr Seq
Flt|1.139800000000000000|FLT||01/07/2011|11/01/2011||H|Aaa|N|
|26156XAC8|||3|ABS|CDO||DRCCBO 1 A12 Sr Seq
Flt|1.039800000000000000|FLT||01/07/2011|11/01/2011||H|Aaa|Y|
|26156XAD6|||4|ABS|CDO||DRCCBO 1 B1 Sub Seq
Fix|9.590000000000000000|FIX||01/07/2011|11/01/2011||H|Baa3|N|
|26156XAE4|||5|ABS|CDO||DRCCBO 1 B2 Sub Seq
Flt|3.199800000000000000|FLT||01/07/2011|11/01/2011||H|Baa3|Y|

```

TRACE 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

Please note all codes/descriptions in the following appendices are subject to continual updates as necessary.

Appendix 1 - Sub-Product Asset Codes and Descriptions

Sub-Product Code	Sub Product Asset Code	Sub Product Asset Description
MBS	POOL	Agency Pass-through Securities SBA pools
TBA	GD NGD	For Good Delivery Not For Good Delivery
CMO	AGRI TRAN WHLN HLOC HOME	CMO Agriculture MBS CMO Tranches CMO Whole Loan Home Equity Lines of Credit Home Equity Loans

ABS	ALEA	Auto Lease Loans
	AFLP	Auto Floor Plan/Wholesale Loans
	AUTO	Auto Installment Loans
	RECR	Recreational Vehicle Loans
	BIKE	Motorcycle Lease
	SBA	Small Business Administration
	CARD	Credit Card Receivables
	STUD	Student Loan
	MANU	Manufactured Housing Loan
	AIRL	Aircraft Lease
	BOAT	Marine Loans
	BUSL	ABS Business Loans
	CNSL	Consumer Loans
	EQIP	Equipment Backed Loan
	EXIM	Export/Import Bank Loan
	NIM	Net Interest Margin Securities
	OTHR	Asset Backed Tranches
	RVMG	Reversed Mortgage
	UTIL	Utility Standard Cost Securitizations
	CTSR	Catastrophe ABS
	LOTT	Lottery ticket ABS
	PNSN	Pension Securitization
	PSNL	Personal Loan ABS
	RENT	Rent ABS
	RINS	Reinsurance ABS
	TMSH	Timeshare ABS
	CBO	Collateralized Bond Obligation
	CDO	Collateralized Debt Obligation
	CFO	Collateralized Fund Obligation
	CLO	Collateralized Loan Obligation
	CMBS	Commercial Mortgage Backed Security

Appendix 2 - Coupon Type Codes and Descriptions

Sub Product	Coupon Type Code	Coupon Type Description
ABS	ARB	Ascending Rate
ABS	CFLT	Complex Floater
ABS	DRB	Descending Rate
ABS	FIX	Fixed
ABS	FLT	Floater
ABS	FLTFX	Floater to Fixed
ABS	FLTVAR	Floater to Variable
ABS	FLTWAC	Floater to WAC
ABS	FXFL	Fixed to Floater
ABS	FXVAR	Fixed to Variable
ABS	FXWAC	Fixed to WAC
ABS	INV	Inverse Floating Rate
ABS	STRFLT	Structured Floater
ABS	STRINV	Structured Inverse Floater
ABS	TFLT	Toggle Floater
ABS	TINV	Toggle Inverse
ABS	VAR	Variable
ABS	WGTSUB	Weighted Average of Subordinate
CMO	ARB	Ascending Rate
CMO	CFLT	Complex Floater
CMO	DRB	Descending Rate
CMO	FIX	Fixed
CMO	FLT	Floater
CMO	FLTFX	Floater to Fixed
CMO	FLTVAR	Floater to Variable
CMO	FLTWAC	Floater to WAC
CMO	FXFL	Fixed to Floater
CMO	FXVAR	Fixed to Variable
CMO	FXWAC	Fixed to WAC
CMO	INV	Inverse Floating Rate
CMO	STRFLT	Structured Floater
CMO	STRINV	Structured Inverse Floater
CMO	TFLT	Toggle Floater
CMO	TINV	Toggle Inverse
CMO	VAR	Variable
CMO	WGTSUB	Weighted Average of Subordinate
MBS	A	ARM
MBS	B	BALLOON
MBS	G	GPM
MBS	H	GEM
MBS	L	LEVEL PAY
MBS	T	TPM
MBS	W	BIWEEKLY
TBA	A	ARM
TBA	B	BALLOON
TBA	G	GPM

TBA	H	GEM
TBA	L	LEVEL PAY
TBA	R	FIXED RATE REVERSE
TBA	T	TPM
TBA	W	BIWEEKLY

Appendix 3 - Interest Type Codes and Descriptions

Interest Type Code	Interest Type Description
IOET	Ioette
IONTL	Interest Only Notional
PNTL	Partial Notional
PO	Principal Only
POHYB	Hybrid Principal Only
STPCLL	Step-Up on Call
STPCLWAC	Step-Up on Call Subject to WACCAP
STPDT	Step-Up on Date
STPDTWAC	Step-Up on Date Subject to WACCAP
STPRLY	Step-Up on Earliest Call or Date
STPRYWAC	Step-Up on Earliest Call or Date, Subject to WACCAP
WACCAP	WAC Cap

Appendix 4 - TBA Settlement Codes and Months

TBA Settlement Code	Month
01	January
02	February
03	March
04	April
05	May
06	June
07	July
08	August
09	September
10	October
11	November
12	December

Appendix 5 - 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
LNY	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
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 (C#, .NET example)

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 TBA Security Master:

```
string Action = "DOWNLOAD";
string file = "TBAMASTER";
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);
}
```