



Revised April 2014

Best Practices for Treasury, Agency Debt, and Agency Mortgage- Backed Securities Markets

Introduction

The Treasury Market Practices Group (TMPG) recognizes the importance of maintaining the integrity and efficiency of the U.S. government securities (Treasury), agency debt, and agency mortgage-backed-securities (MBS) markets. We believe that the public and all market participants benefit from a marketplace that is transparent and efficient. We believe that these characteristics help maintain vigorous competition and liquidity in the Treasury, agency debt, and agency MBS markets. To that end, we recommend that all Treasury, agency debt, and agency MBS market participants incorporate best practices in their operations in order to promote trading integrity and to support an efficient marketplace.

Best practices are meant to serve as guidelines for market participants seeking to organize their operations in a manner that fosters strong controls and reinforces overall market integrity. The best practices in this document are intended not only for dealers, but also for any market participant active in the Treasury, agency debt, and agency MBS markets, including dealers, banks, buy-side firms, investors, investment advisors, market utilities, custodians, and others. We believe that these best practices, if adopted, can strengthen each market participant's existing controls. In addition, we believe that the implementation of these best practices will help reduce market disruptions—including, but not limited to, episodes of protracted settlement failure—and buttress overall market integrity, resulting in important benefits for Treasury, agency debt, and agency MBS market participants as well as the public. Further information about specific subject matter TMPG recommendations can be found on the TMPG's website and in the appendix to this document.

These best practices seek to affirm existing notions of good market conduct and are intended as useful operational guideposts rather than binding rules or regulatory guidance. As each market participant makes use of these recommendations, it should take into account its own unique characteristics, such as asset size, transaction volume, and the form of the organization's participation in the market (for example, market maker, investor, or custodian).

This compilation is by no means a comprehensive guide to doing business in the Treasury, agency debt, and agency MBS markets. Rather, for both new and established market participants, it can serve as a benchmark when reviewing the adequacy of operating procedures. In addition to considering these best practices, market participants should be sure that they are following all applicable laws at all times and should not engage in illegal activities such as price manipulation.

I. Promoting Liquidity and Transparency

The smooth and efficient functioning of the Treasury, agency debt, and agency MBS markets relies on the integrity, honesty, good faith, and mutual trust shown by all participants. An efficient market fosters liquidity, which helps all market participants find buyers and sellers more effectively. It is important that all market participants promote market liquidity.

- ❖ **All market participants should behave in a manner that supports market liquidity.** Dealers, in particular, should promote market making, and all market participants should avoid trading strategies that hinder market clearance. Examples of strategies to avoid include those that cause or exacerbate settlement fails, those that inhibit the provision of liquidity by others, and those that restrict the floating supply of a particular issue in order to generate price movements in that security or related markets.
- ❖ **Market participants should be responsible in quoting prices and should promote overall price transparency across trading platforms.**
 - ❖ Price discovery activities are an integral part of the Treasury, agency debt, and agency MBS markets and should be encouraged. Market participants should pursue pricing practices that have the objective of resulting in a transaction, rather than resulting in market distortions.
 - ❖ Price discovery relies on efficient price reporting and transparent markets. For example, market participants should not conduct trades through interdealer voice brokers with electronic trading screens without having a record of the transaction published on the screen at the time of the transaction. In addition, market participants should not engage in conduct that deliberately seeks to evade regulatory reporting requirements or impedes market transparency efforts. The TMPG believes that increased market transparency supports market liquidity and consequently benefits all market participants.

- ❖ **Market participants should ensure adequate oversight of their Treasury, agency debt, and agency MBS trading activity.** The nature of the oversight may vary depending on the role that each market participant plays in the marketplace and the organizational structure of the firm. However, all firms should develop a mechanism for measuring and scrutinizing the market participant's overall trading activity in the Treasury, agency debt, and agency MBS markets to ensure that trading behavior in the aggregate, as well as along individual business lines, is understood by senior business managers. Oversight coverage should include, at a minimum, the organization's activities in the Treasury, agency debt, and agency MBS cash markets (including primary and secondary trading), related financing activity, and related derivatives or structured products activity.

II. Maintaining a Robust Control Environment

Market participants that are active in financial markets are familiar with the importance of establishing and maintaining a rigorous internal control environment. Indeed, the variety of legal and reputational risks that a market participant's Treasury, agency debt, and agency MBS trading and settlement operations are subject to suggests that a vigorous, well-informed, and assertive internal control program is essential. An internal control program should include the active engagement of the business, audit, legal, risk, operations, finance, and compliance functions.

- ❖ **Each market participant should maintain a strong internal control environment sufficient to ensure that each of its business areas (front, middle, and back offices) acts in accordance with applicable laws, regulations, self-regulatory organization rules, and best market practices.** Firms should ensure that their organizational structures support a strong control environment. Sales and trading desk management and the operations, finance, legal, and compliance staff should work collectively to ensure that any questionable sales or trading practices are identified and addressed in a timely manner. Trading desk management and supervision should be aware of, and responsible for, strategies executed by the trading desk. Other control functions, and particularly legal and compliance staff, should be poised to evaluate and respond promptly to potentially inappropriate sales and trading practices should they occur. Firms should aspire to provide system tools that relay real-time trade position information and well-designed exception-based reporting to the compliance function in order to provide timely notification of large positions or other indications of potentially problematic activity. Depending on the type of entity and its activities, some of the issues that

market participants should be attentive to include fair and non-misleading communication, best execution and markup obligations, rules and regulations applicable to participation in U.S. Treasury auctions, prohibited sales and trading practices, trade reporting requirements, information barriers (for example, between loan origination and trading functions), robust supervision of sales and trading personnel, and proper licensing of sales, trading, and supervisory personnel.

- ❖ **Market participants should ensure that the individuals responsible for legal and compliance functions adhere to robust review and oversight procedures regarding trading and settlement operations. Senior business managers should take responsibility for ensuring that internal control policies are fully implemented and followed in their business areas.**
- ❖ **Individuals responsible for internal control functions should have a sufficient understanding of trading strategies engaged in by trading desks to allow them to recognize potentially problematic activity.** Individuals responsible for internal control functions, and particularly operations, finance, legal, and compliance staff, should have sufficient awareness and understanding of the objective and execution of trading strategies to enable them to detect and deter questionable trading that could result in market disruption, illiquid market conditions, or legal or reputational risk to the organization.
- ❖ **Individuals responsible for internal control functions, and particularly operations, finance, legal, and compliance staff, should be empowered to bring any concerns to the attention of appropriate senior business managers within the organization.**
- ❖ **Individuals responsible for internal control functions that track business-related charges (including, for example, fails or capital charges) associated with trading activity, including settlement fails, should communicate these charges and their sources to senior and trading desk management.**
- ❖ **Internal control policies should further the firm's ability to detect and prevent potentially disruptive trading activity by identifying the specific trading trends, positions, strategies, or behaviors within the trading operation that constitute triggers for mandatory business and compliance review.** Mandatory review does not in itself automatically suggest that a trading position, strategy, or behavior must be altered; that will depend on the results of the review and consultations between management and compliance. Triggers, among other controls, should aim to identify trading activities that reduce supply circulating in cash or collateral markets. Because the structure of the Treasury,

agency debt, and agency MBS markets is always evolving, triggers for mandatory review—and the appropriate thresholds for individual triggers—may change over time as the size and structure of the market change. However, market participants should consider including the following non-exhaustive list of indicators in their compliance plan to prompt further review:

- ❖ a large concentration of holdings in the floating supply of a particular Treasury or agency debt security or in the deliverable supply of a to-be-announced (TBA) MBS issue;
- ❖ In the case of the Treasury or agency debt markets, floating supply, at its largest, reflects the amount of the security originally issued less the amount that has been stripped into zero-interest instruments. Other factors, such as defeasance programs or holdings of large buy-and-hold investors, can limit floating supply further.
- ❖ In the case of the agency MBS market, deliverable supply of a TBA MBS, at its largest, reflects the amount of the security originally issued less any amount that has been paid down or structured into real estate mortgage investment conduits (REMICs). Other factors, such as holdings of large buy-and-hold investors, or the categorization of a basket of pools as “specified collateral,” can limit deliverable supply further.
- ❖ elevated delivery or receive fails in a particular security and/or the presence of particular trades that persistently fail to settle;
- ❖ elevated capital charges resulting from settlement fails;
- ❖ persistent and deep “specialness” of a security;
- ❖ an appreciable or unusual amount of market turnover in a particular security;
- ❖ unusual levels or patterns of either profits or losses;
- ❖ changes in a market participant's normal securities lending or borrowing patterns in a security in which a market participant has a large position; and
- ❖ in the case of Treasury and agency debt, when securities are trading “special,” placing a substantial percentage of floating supply in general collateral funding arrangements, such as general collateral finance (GCF) or tri-party repo, an apparent increase in such financing over time, or placing large blocks of collateral with select counterparties that typically do not recirculate collateral.

- ❖ **Trading desk management and individuals responsible for the determination of credit management policies should be sure to consider the counterparty and market risks associated with transactions and to develop robust risk management processes.**
- ❖ **Consistent with prudent management of counterparty exposures, forward-settling transactions, such as agency MBS transactions, should be margined.** To help both parties mitigate counterparty risk owing to market value changes, two-way variation margin should be exchanged on a regular basis. Written master agreements should describe the parties' agreement on all aspects of the margining regime, including collateral eligibility, timing and frequency of margin calls and exchanges, thresholds, valuation of exposures and collateral, and liquidation. (Please refer to the TMPG [Agency MBS Margining Recommendation](#) for detailed best practice guidance).
- ❖ In the Treasury or agency debt market, when a participant controls a significant percentage of the floating supply of an issue that is trading deeply special, it should ensure that it is making a good-faith attempt to lend the security into the specials market, rather than choosing to finance large portions of collateral in relatively more expensive funding arrangements.
- ❖ In the agency MBS market, when a participant holds a large position or controls a significant percentage of the deliverable supply of a TBA issue that is trading deeply special, it should not finance the position with the intent to adversely affect the liquidity of the TBA issue. One example of this type of behavior would be financing a large position in a more expensive manner through the repo market, rather than through the dollar roll market, in order to limit the deliverable supply of the TBA issue.

III. Managing Large Positions with Care

Although large long or short positions are not necessarily problematic, these positions should be managed responsibly to avoid market disruptions. From time to time, a market participant may amass a particularly large long or short position in a specific Treasury, agency debt, or agency MBS issue or product. **A market participant should manage that position with heightened vigilance, mindful of the need to support market liquidity.** Particularly, large short or long positions in the floating supply of an issue should be given close scrutiny because of the uncertainty of the tradeable float. Market participants with large short positions or active shorting strategies have similar responsibilities to support the liquidity and smooth functioning of the market to those with large long positions.

- ❖ **Market participants should avoid any strategies that create or exacerbate settlement fails.** Such vigilance should be intensified when a large position predominantly or entirely results from non-market-making activity since the market participant has more control over that position's size and growth.
- ❖ **Firms should adopt a strong presumption against using relatively more expensive funding arrangements to finance large portions of an issue trading deeply special, even on an overnight basis.** If such financing is used, senior management should fully understand why the exception is appropriate. Management and legal and compliance functions should be notified of such activity in a timely manner. Failing to deliver is not an acceptable funding arrangement.
- ❖ **Market participants with large short positions should make deliveries in good faith.** Market participants with a particularly large short position in an issue should be sure that they are making a good-faith attempt to borrow needed securities in order to make timely delivery of securities. Market participants should avoid trading strategies designed to profit from settlement fails. Examples of this type of behavior include the practice of selling short a security in the repo market around or below zero percent, and selling a dollar roll around or below zero percent, with little expectation of being able to obtain the security to make timely delivery. In cases where transactions are subject to a fails charge, different thresholds for profiting from such behavior may be relevant.
- ❖ **When evaluating trading strategies for large positions, market participants should take care that sudden changes in those strategies do not adversely affect the liquidity or settlement of the Treasury, agency, or agency MBS issue in the marketplace.** Market participants should not refrain from trading when they hold a large position. However, when market participants consider implementing a new trading strategy for a large position, they should evaluate whether it may affect market liquidity. For example, although open interest in MBS TBAs in a given issue often well exceeds the deliverable supply in the coupon, delivery decisions should not be made with the intention of distorting prices of either the cash security or the dollar roll. Senior management, credit and market risk, operations, legal, and compliance functions should be made aware of any significant changes to trading strategies that may have adverse implications for market liquidity.
- ❖ **Management and compliance functions should be alerted as soon as possible about particularly large positions—long and short—taken by a trading desk**

and, depending on the circumstances of a given situation, early escalation to the legal department may also be appropriate. Market participants should have policies and systems in place to ensure that appropriate personnel in management and in compliance are alerted in a timely fashion in order to take any necessary actions to safeguard a market participant's reputation and manage any legal or regulatory risk.

IV. Promoting Efficient Market Clearing

Smooth and predictable settlement and clearing are crucial for preserving the liquidity and efficiency of the Treasury, agency debt, and agency MBS markets. Settlement fails prevent the market from clearing efficiently and can damage the market's liquidity and function. While some settlement fails are inevitable, market participants should take care that their internal policies promote practices that support efficient and timely clearing and that avoid unnecessary market congestion. Market participants should avoid practices that intentionally inhibit the efficient clearing of the market.

- ❖ **A market participant's policies and systems should ensure that trades are entered into trading systems promptly by the trading desk staff and made available to the operations area as quickly as possible in order to promote efficient settlement. It is important that market participants time their reconciliation activities in a way that does not impede the normal clearing and settlement process.**
- ❖ **Market participants should be organized to ensure that the operations function is managed independently of the trading desk. Settlement and clearing staff should have reporting lines that are separate from those of the trading staff. In addition, internal controls should be in place to restrict trading staff from delaying or influencing settlement of Treasury, agency debt, or agency MBS transactions.** Settlement staff should be empowered to question instructions from trading staff and to elevate unusual instructions to the attention of management. Policies should require that all requests that deviate from normal settlement practice be communicated to legal and compliance staff in a timely fashion.
- ❖ **Relevant transaction information should be provided to counterparties well in advance of applicable cutoff times such that counterparties can make timely delivery of securities.** Examples of such information include account allocation information and, in the case of agency MBS transactions, TBA pool information.
- ❖ **To promote the integrity and efficiency of tri-party repo settlement, market participants should support timely trade confirmation in this market.** (Please refer to the TMPG Recommendation for [Timely Trade Confirmation in the Tri-Party Repo Market](#) for detailed best practice guidance).
- ❖ **Trade cancellations and corrections should be rare and occur only as a result of operational errors or other mistakes made in good faith.** Trade cancellations and corrections should not be used to adjust or amend previously matched and confirmed trades for purposes other than error correction.
- ❖ **Trade cancellations and corrections should be routinely reviewed by senior desk management and compliance staff, with particular focus on any occurrences after 3:00 p.m. ET.**
- ❖ **To promote efficient market clearing and reduce settlement fails, market participants should avoid the practice of holding back deliveries until immediately before the close of the securities wire.**
- ❖ **Practices that cause settlement fails should warrant high scrutiny from trading management, settlement staff, and compliance staff. Intentionally failing to deliver on settlement date in order to "hold the box," "sort the box," or substitute TBA pools should be avoided.** Repeated or systematic practices that cause settlement fails should not be permissible under a market participant's operating procedures.
- ❖ **In lower rate environments, a "fails charge" should be applied to delivery-versus-payment settlement failures of Treasuries, agency debt, and agency MBS to encourage sellers to effect timely settlement and therefore reduce fails.** (Please refer to the TMPG [Fails Charge Practice Recommendations](#) for U.S. Treasury securities and for agency debt and agency MBS securities for detailed best practice guidance.)
- ❖ **Delivery of Treasuries, agency debt, and agency MBS should minimize market congestion and the risk of settlement fails.** Market participants should have clear policies regarding how and when to make deliveries of securities in the settlement and clearing process. These policies should include internal cutoff times comfortably in advance of any Fedwire deadlines by which market participants should provide new trade notifications. For same-day settlement trades entered very late in the trading session, deliveries should be processed as expeditiously as possible.

- ❖ Market participants should observe the TMPG and SIFMA [Recommended Closing Time Practices for Delivering Fedwire Eligible Securities](#).
- ❖ **Incoming securities from counterparties that are to be delivered to other counterparties should be turned around quickly to minimize fails and promote market clearing and settlement.** Internal policies and systems should identify a standard turnaround period for ensuring that securities are processed in a timely and efficient manner.
- ❖ **All market participants should be diligent in addressing persistent settlement fails.** Protracted settlement fails inhibit market function and can reduce market participation. All market participants should aim to resolve persistent fails as soon as possible. In addition, market participants should seek to utilize netting solutions in the event of, and in order to mitigate, round-robin fails.
- ❖ **Firms engaged in settlement activity involving deliveries or receipts of Treasuries, agency debt, or agency MBS should have controls in place that alert business and compliance managers to significant settlement fails in an individual issue or CUSIP.** For instance, approaches that such firms might use to monitor fails are:
 - ❖ identifying, for each specific issue, a maximum acceptable ratio of fails to aggregate receipts or deliveries during each settlement date;
 - ❖ identifying a maximum acceptable amount of net fails to deliver or receive; and
 - ❖ establishing a separate absolute dollar threshold for settlement fails in a specific issue.

Firms with significant financing activity, in particular, should consider including these measures in their internal controls. Internal controls that immediately bring significant fails in an individual issue to management's attention allow managers to respond before fails age or become systemic, thereby helping to improve overall market liquidity and functioning for all participants

Appendix

The TMPG's best practice recommendations include all the general principles listed in the preceding pages of this document as well as their various subject-specific practice recommendations, which can be found on the TMPG website at the links provided below.

Agency MBS Margining Recommendation:

<http://www.newyorkfed.org/tmpg/margining.html>

Fails Charge Practice Recommendation:

http://www.newyorkfed.org/tmpg/settlement_fails.html

Timely Trade Confirmation in the Tri-Party Repo Market Recommendation:

<http://www.newyorkfed.org/tmpg/tripartyrepo.html>

Securities Delivery Closing Times Recommendation:

http://www.newyorkfed.org/tmpg/securities_delivery_closing_times.html

The Treasury Market Practices Group (TMPG) is a group of market professionals committed to supporting the integrity and efficiency of the Treasury, agency debt, and agency mortgage-backed securities markets. The TMPG is composed of senior business managers and legal and compliance professionals from a variety of institutions—including securities dealers, banks, buy-side firms, market utilities, and others—and is sponsored by the Federal Reserve Bank of New York. TMPG best practice recommendations and publications represent the view of its private-sector members. More information is available at <http://www.newyorkfed.org/tmpg>.

