A Preliminary Look at Dealer-to-Customer Markets on October 15, 2014

THE EVOLVING STRUCTURE OF THE U.S. TREASURY MARKET October 20-21, 2015

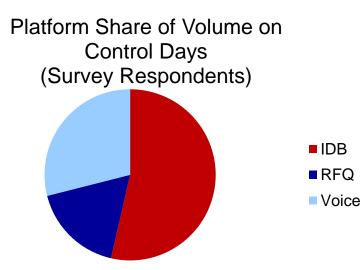
Treasury Market Structure

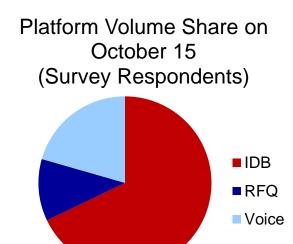
- Two important components of the Treasury market were not covered in the public report
 - Dealer-to-Customer (DtC) market
 - Interest rate swaps and swaptions
- Limited information available on DtC market activity
 - Request for Quote (RFQ) data (TradeWeb, Bloomberg)
 - Sample Voice data (Ad-hoc survey of select large dealers)
- Swaps/swaptions trades reported to swap data repositories (SDRs)
 - Participant level transaction & position data reported to CFTC



Evidence from Survey of Large Dealers Average Trading Volume by Platform for Large Dealers

- Ad-hoc survey of select large dealers estimated to represent about half of DtC volume
- DtC represents a significant share of volume for large dealers
 - Significant variation in volume shares over time and across dealers
 - Voice trading volume significantly greater than RFQ on most days
 - DtC volume rose by ~50% on 10/15 while IDB volume rose by 210%
 - Voice trading as a share of DtC volume declined slightly on 10/15



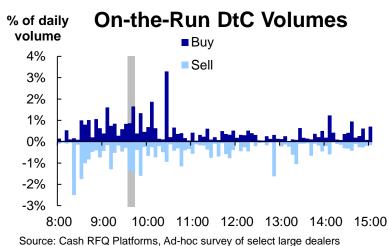


Source: Ad-hoc survey of select large dealers Note: Pie chart represents an average and is not representative of any one dealer Source: Ad-hoc survey of select large dealers Note: Pie chart represents an average and is not representative of any one dealer

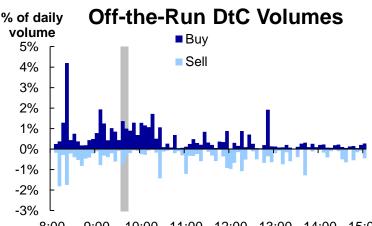
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Approximate Intraday DtC Trading Volumes on 10/15

- DtC trading volumes were modest relative to IDB volumes and reasonably balanced during the event window
 - No evidence of single large trade or sequence of large trades leading up to or during event window
 - Intra-day pattern represents an estimate as voice data limited to survey respondents



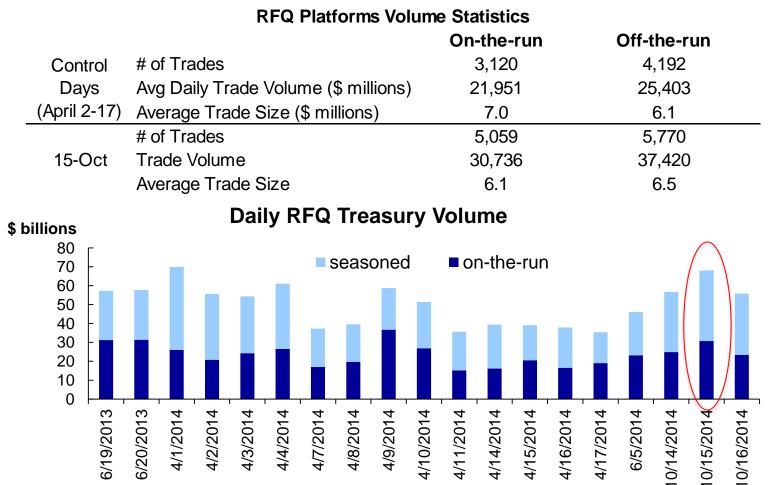
Note: 5-minute intraday buckets, 8:00 – 15:00 ET; Event window grey shaded



^{8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00} Source: Cash RFQ Platforms, Ad-hoc survey of select large dealers Note: 5-minute intraday buckets, 8:00 – 15:00 ET; Event window grey shaded

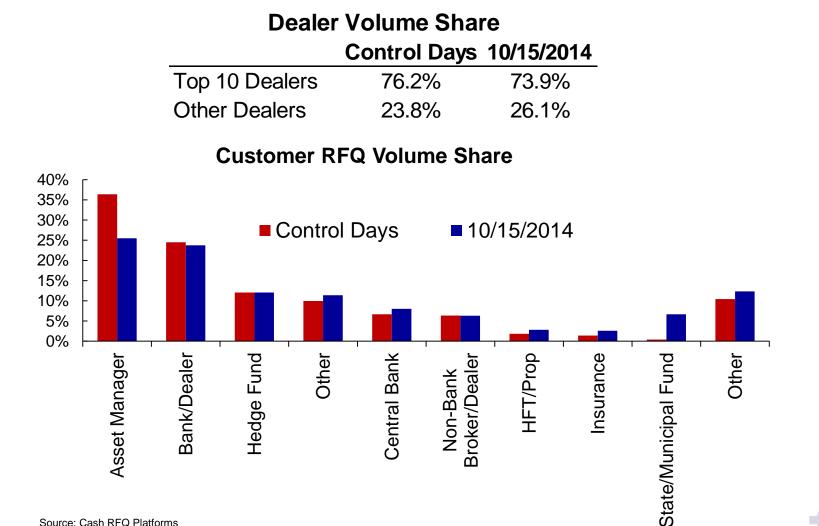
RFQ Trading Statistics

- RFQ data analyzed from TradeWeb and Bloomberg represents the vast majority of US Treasury RFQ volume
 - 10/15 not an outlier in terms of RFQ volume

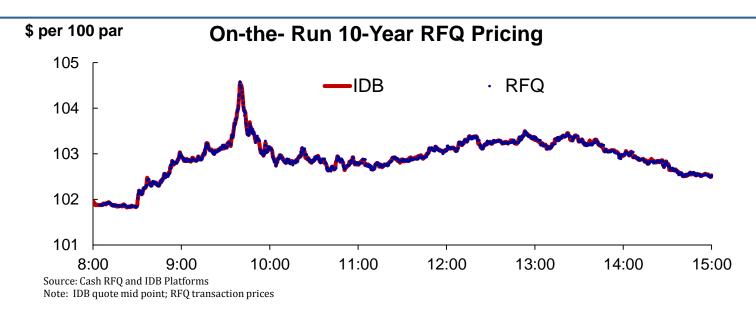


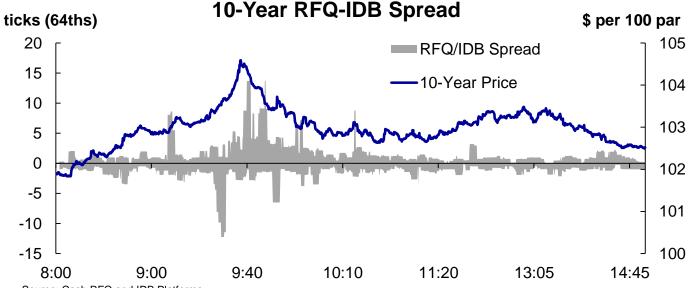
RFQ Platform Volume by Firm Type

- Significant dealer concentration of RFQ volume
- Diversity of client flows greater on 10/15



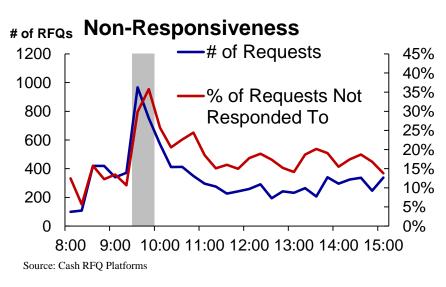
RFQ Platform Trade Pricing





Source: Cash RFQ and IDB Platforms Note: 80% confidence interval, based on rolling 20 trades; time axis spaced in activity time

RFQ Platform Quoting Behavior



% of Requests Without Response

Event Days

Control Days

Source: Cash RFO Platforms

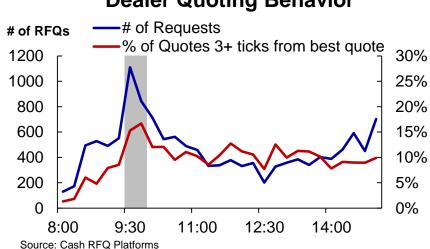
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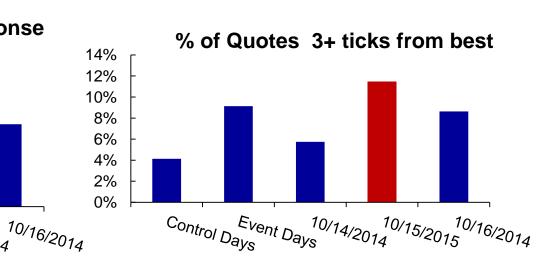
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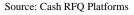
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10/14/2014



Dealer Quoting Behavior

Summary of Preliminary DtC Analysis

- DtC market is a significant share of the overall Treasury market
- Dominated by the largest dealers
- Voice remains an important mode of trading in DtC segment
- No outsized trading volume observed during the event window on 10/15
- RFQ pricing generally remained tight through the period of peak volatility
 - Temporary widening in RFQ market mirrors widening of dealer quotes in IDB & Futures noted in the Joint Staff Report
- Some evidence of dealer pullback in RFQ market during event window
 - Increase in non-competitive quoting
 - Increased non-response rate
- Overall, preliminary evidence supports that the DtC market tracked IDB & Futures markets on 10/15 and that the event was not driven by DtC flows