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# Asset Services Sigma- Agent Performance Report

July 2017 Data

September 15, 2017

# Executive Summary

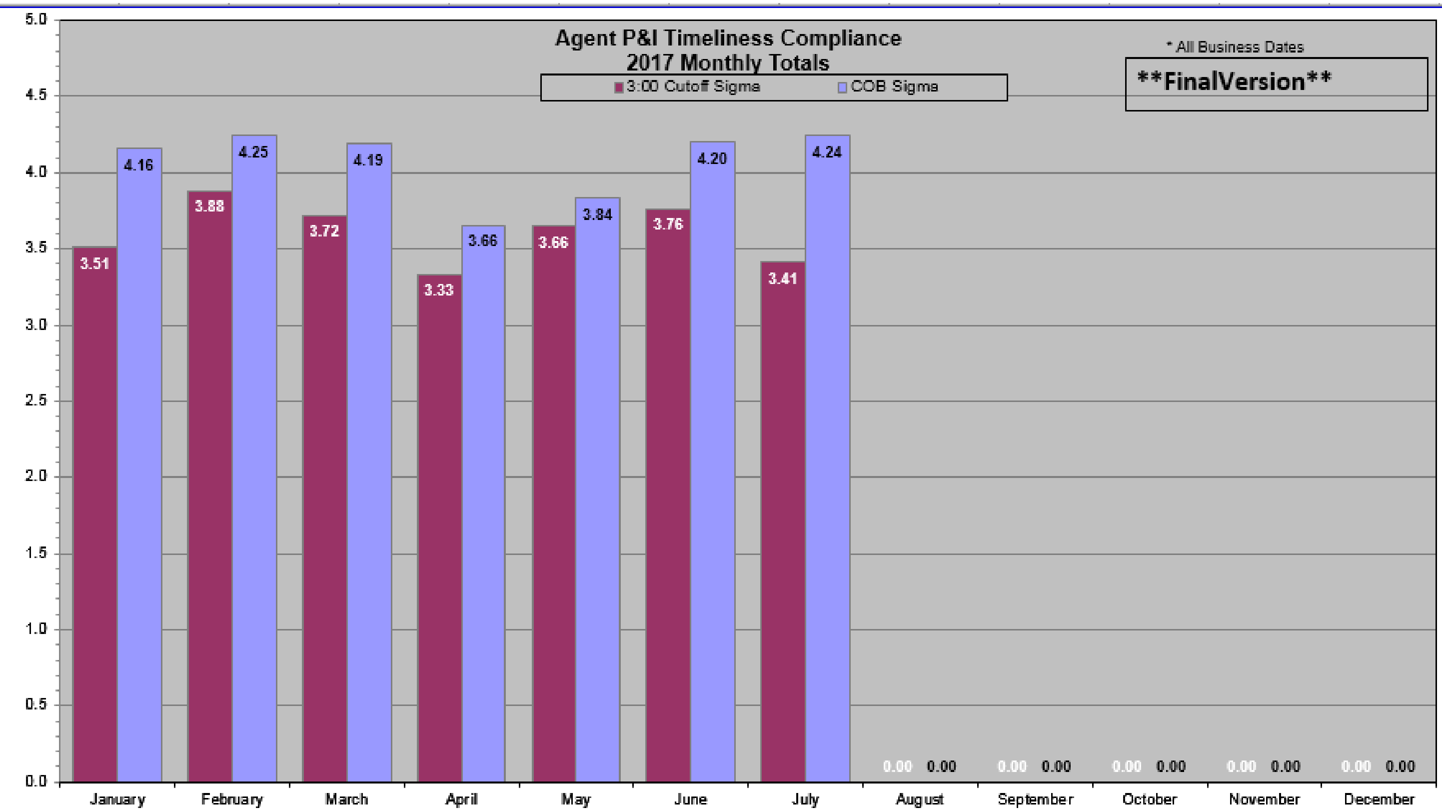
**This report highlights the July 2017 performance of the top agents vs. industry targets. This report focuses on the following metrics:**

**Principal and Interest payment timeliness compliance - percentage of funds received from agents at cut-off (3:00pm ET) and at close of business (6:00pm ET), relative to the total dollars paid for the month. The Agent sigma performance for July 2017 was 3.475 (98.77%). This month's performance is above the target of 3.67σ (98.50%).**

**Principal and Interest allocations on payable date - percentage of allocated dollars and CUSIPS, relative to the total expected dollars and CUSIPs allocated. The Agent sigma performance for July 2017 was 4.24σ (99.70%). This month's performance is above the target of 3.83σ (99.00%).**

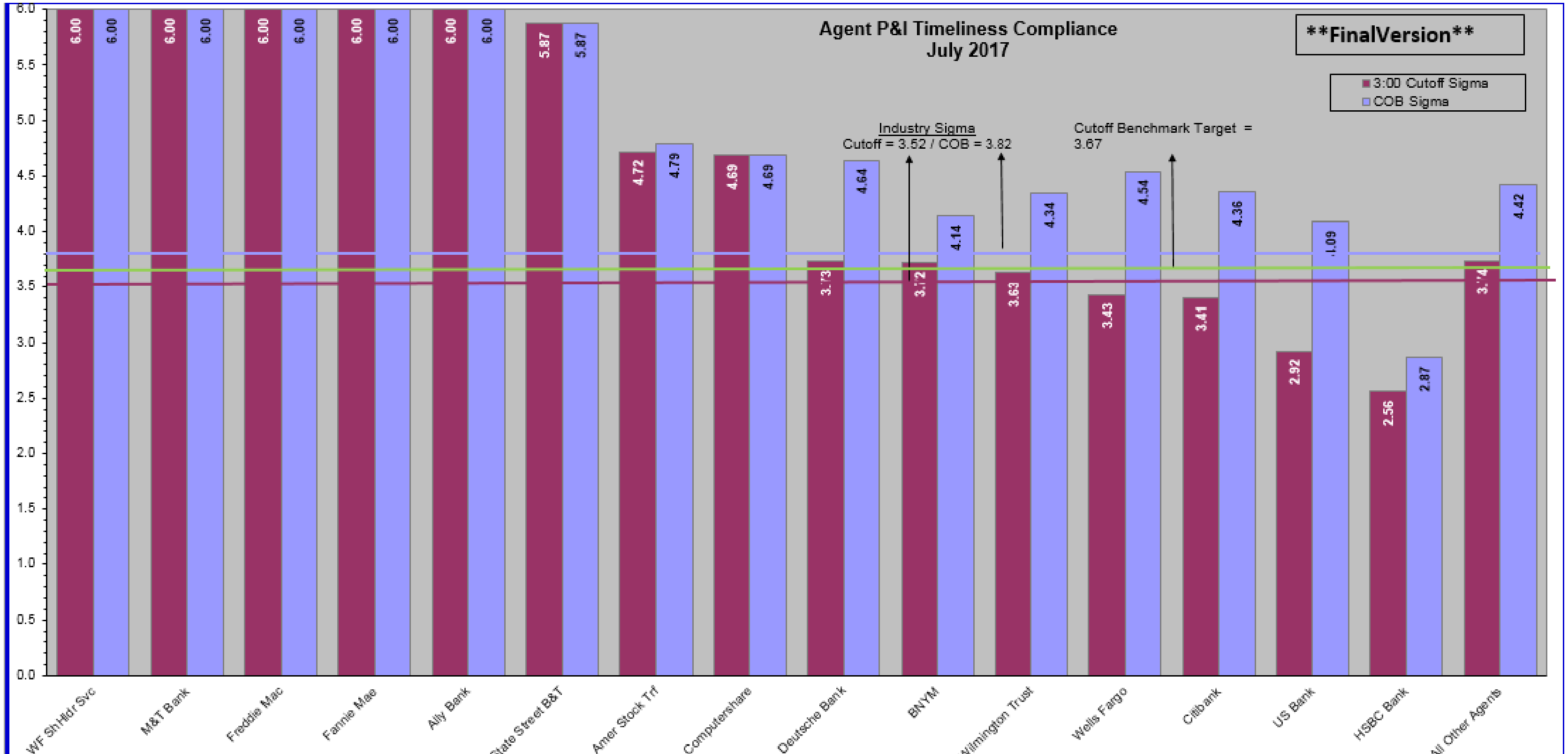
Please visit DTCC's web-site http://dtcc.com/asset-services/asset-services-performance-metrics.aspx for more detailed metric definitions and agent trend charts.

# P&I Timeliness Compliance Monthly Trend



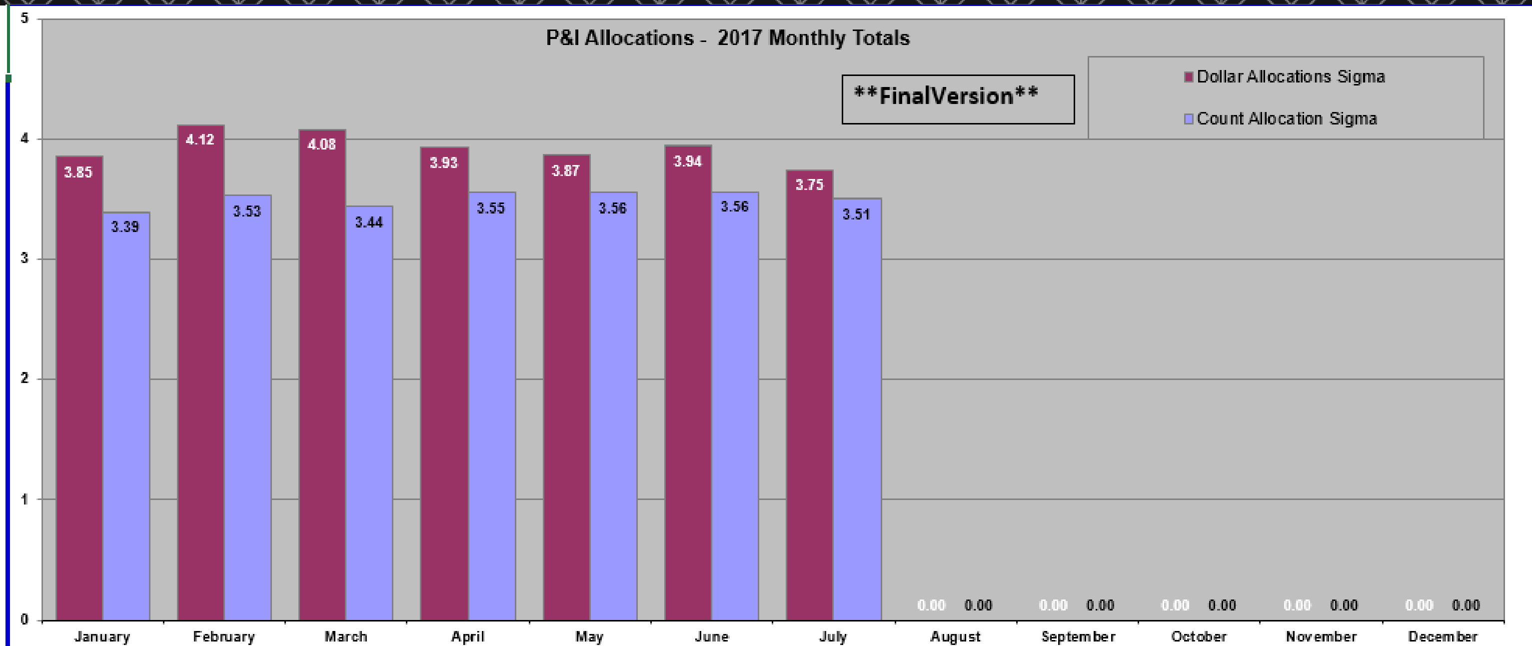

| | January | February | March | April | May | June | July | August | September | October | November | December | YTD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent by 3:00 Cut-off | 97.78% | 99.15% | 98.69% | 96.67% | 98.44% | 98.82% | 97.22% | | | | | | 98.11% |
| Cutoff Sigma | 3.51 | 3.88 | 3.72 | 3.33 | 3.66 | 3.76 | 3.41 | | | | | | 3.58 |
| Percent by COB | 99.61% | 99.70% | 99.64% | 98.45% | 99.03% | 99.66% | 99.70% | | | | | | 99.40% |
| COB Sigma | 4.16 | 4.25 | 4.19 | 3.66 | 3.84 | 4.20 | 4.24 | | | | | | 4.01 |

# P&I Timeliness Compliance – Agent Performance



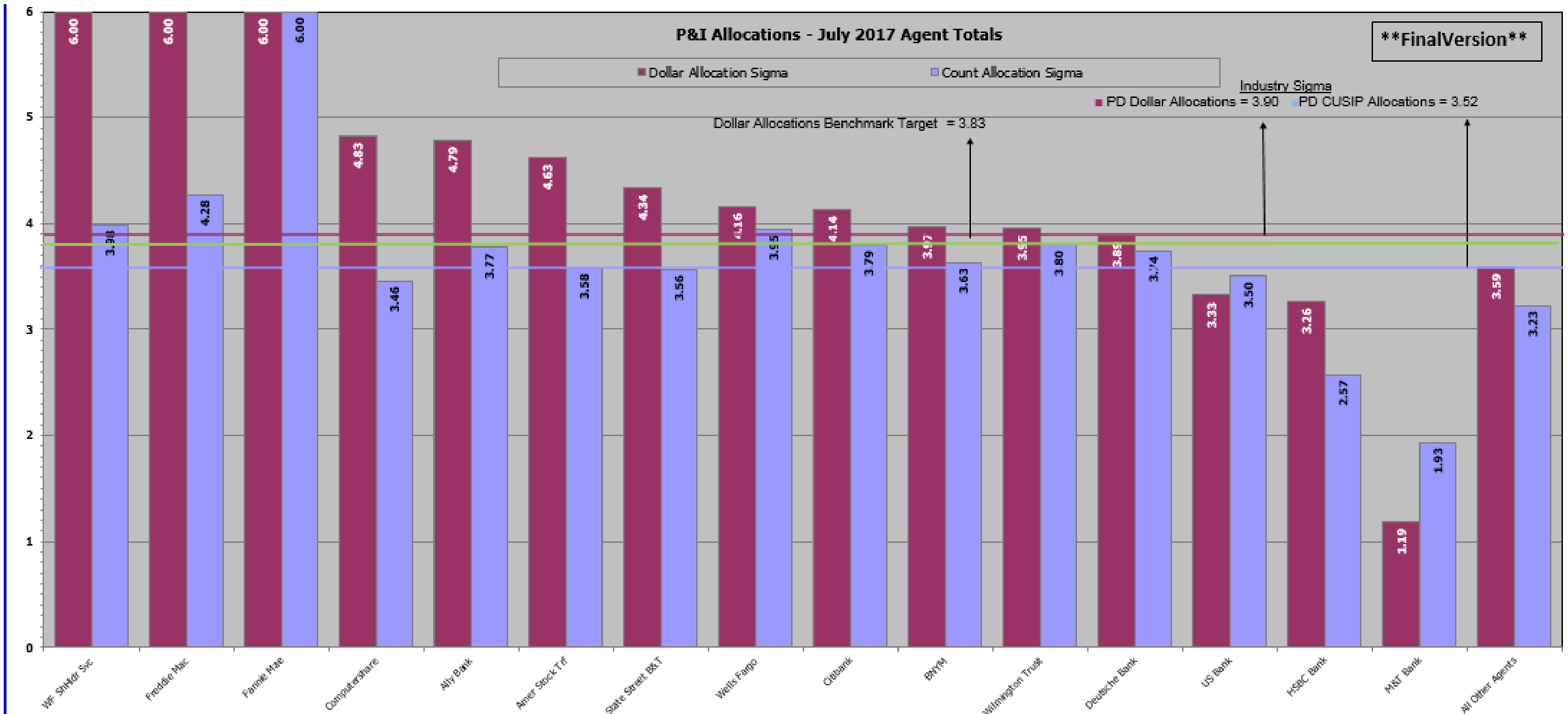

| | VF ShHldr Svc | M&T Bank | Freddie Mac | Fannie Mae | Ally Bank | State Street B&T | Amer Stock Trf | Computershare | Deutsche Bank | BNYM | Vilmington Trust | Vells Fargo | Citibank | US Bank | HSBC Bank | All Other Agents |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| % of Total Allocations | 2.51% | 0.00% | 0.84% | 0.17% | 0.10% | 1.71% | 1.54% | 7.45% | 5.14% | 27.45% | 1.86% | 12.74% | 5.62% | 21.02% | 0.31% | 11.55% |
| Percent by 3:00 Cut-off | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 99.94% | 99.93% | 98.72% | 98.69% | 98.36% | 97.34% | 97.19% | 92.23% | 85.48% | 98.74% |
| Cutoff Sigma | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 5.87 | 4.72 | 4.69 | 3.73 | 3.72 | 3.63 | 3.43 | 3.41 | 2.92 | 2.56 | 3.74 |
| Variance from Industry Cutoff | 2.59 | 2.59 | 2.59 | 2.59 | 2.59 | 2.46 | 1.31 | 1.28 | 0.32 | 0.31 | 0.22 | 0.02 | 0.00 | -0.49 | -0.86 | 0.32 |
| Percent by COB | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 99.95% | 99.93% | 99.92% | 99.58% | 99.78% | 99.88% | 99.79% | 99.51% | 91.44% | 99.83% |
| COB Sigma | 6.00 | 6.00 | 6.00 | 6.00 | 6.00 | 5.87 | 4.79 | 4.69 | 4.64 | 4.14 | 4.34 | 4.54 | 4.36 | 4.09 | 2.87 | 4.42 |

# P&I Allocations Monthly Trend




| | January | February | March | April | May | June | July | August | September | October | November | December | YTD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Expected Allocations (Billions) | $270.299 | $256.272 | $336.389 | $294.175 | $284.020 | $338.995 | $289.729 | | | | | | $2069.879 |
| Allocation $ Percent | 99.07% | 99.56% | 99.51% | 99.25% | 99.10% | 99.28% | 98.77% | | | | | | 99.22% |
| Allocation $ Sigma | 3.85 | 4.12 | 4.08 | 3.93 | 3.87 | 3.94 | 3.75 | | | | | | 3.92 |
| Unallocated Impact (Billions $) | $2.513 | $1.118 | $1.656 | $2.213 | $2.554 | $2.456 | $3.569 | | | | | | $16.080 |
| Total CUSIP Expected | 285,717 | 371,199 | 310,589 | 267,655 | 276,563 | 371,101 | 284,940 | | | | | | 2,167,764 |
| CUSIP Allocations % | 97.09% | 97.89% | 97.41% | 98.00% | 98.03% | 98.05% | 97.77% | | | | | | 97.76% |
| CUSIP Allocations Sigma | 3.39 | 3.53 | 3.44 | 3.55 | 3.56 | 3.56 | 3.51 | | | | | | 3.51 |
| Unallocated Impact (Count) | 8,302 | 7,842 | 8,053 | 5,351 | 5,446 | 7,231 | 6,361 | | | | | | 48,586 |

# P&I Allocations – Agent Performance




| AGENT | WF ShHldr Svc | Freddie Mac | Fannie Mae | Computer share | Ally Bank | Amer Stock Trf | State Street B&T | Wells Fargo | Citibank | BNYM | Wilmington Trust | Deutsche Bank | US Bank | HSBC Bank | M&T Bank | All Other Agents |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Expected / % of Industry | $7.538 | $2.519 | $0.496 | $22.321 | $0.292 | $4.620 | $4.995 | $36.233 | $15.603 | $81.097 | $5.520 | $14.851 | $56.512 | $0.516 | $0.016 | $36.602 |
| | 2.60% | 0.87% | 0.17% | 7.70% | 0.10% | 1.59% | 1.72% | 12.51% | 5.39% | 27.99% | 1.91% | 5.13% | 19.50% | 0.18% | 0.01% | 12.63% |
| Allocation $ Percent | 100.00% | 100.00% | 100.00% | 99.96% | 99.95% | 99.91% | 99.78% | 99.61% | 99.59% | 99.32% | 99.29% | 99.15% | 96.60% | 96.08% | 37.84% | 98.16% |
| Allocation $ Sigma | 6.00 | 6.00 | 6.00 | 4.83 | 4.79 | 4.63 | 4.34 | 4.16 | 4.14 | 3.97 | 3.95 | 3.89 | 3.33 | 3.26 | 1.19 | 3.59 |
| Variance from Industry $ Sigma | 2.25 | 2.25 | 2.25 | 1.08 | 1.04 | 0.88 | 0.60 | 0.41 | 0.39 | 0.22 | 0.21 | 0.14 | -0.42 | -0.49 | -2.56 | -0.16 |
| CUSIP Allocations % | 99.35% | 99.72% | 100.00% | 97.51% | 98.85% | 98.12% | 98.04% | 99.28% | 98.91% | 98.35% | 98.94% | 98.76% | 97.75% | 85.77% | 66.67% | 95.82% |
| CUSIP Allocations Sigma | 3.98 | 4.28 | 6.00 | 3.46 | 3.77 | 3.58 | 3.56 | 3.95 | 3.79 | 3.63 | 3.80 | 3.74 | 3.50 | 2.57 | 1.93 | 3.23 |
| Variance from Industry CUSIP Sigma | 0.48 | 0.77 | 2.49 | -0.05 | 0.27 | 0.07 | 0.05 | 0.44 | 0.29 | 0.12 | 0.30 | 0.24 | 0.00 | -0.94 | -1.58 | -0.28 |