



Securing Today. Shaping Tomorrow.™

# Asset Services Sigma- Agent Performance Report

December 2017 Data

January 31, 2018



# Executive Summary

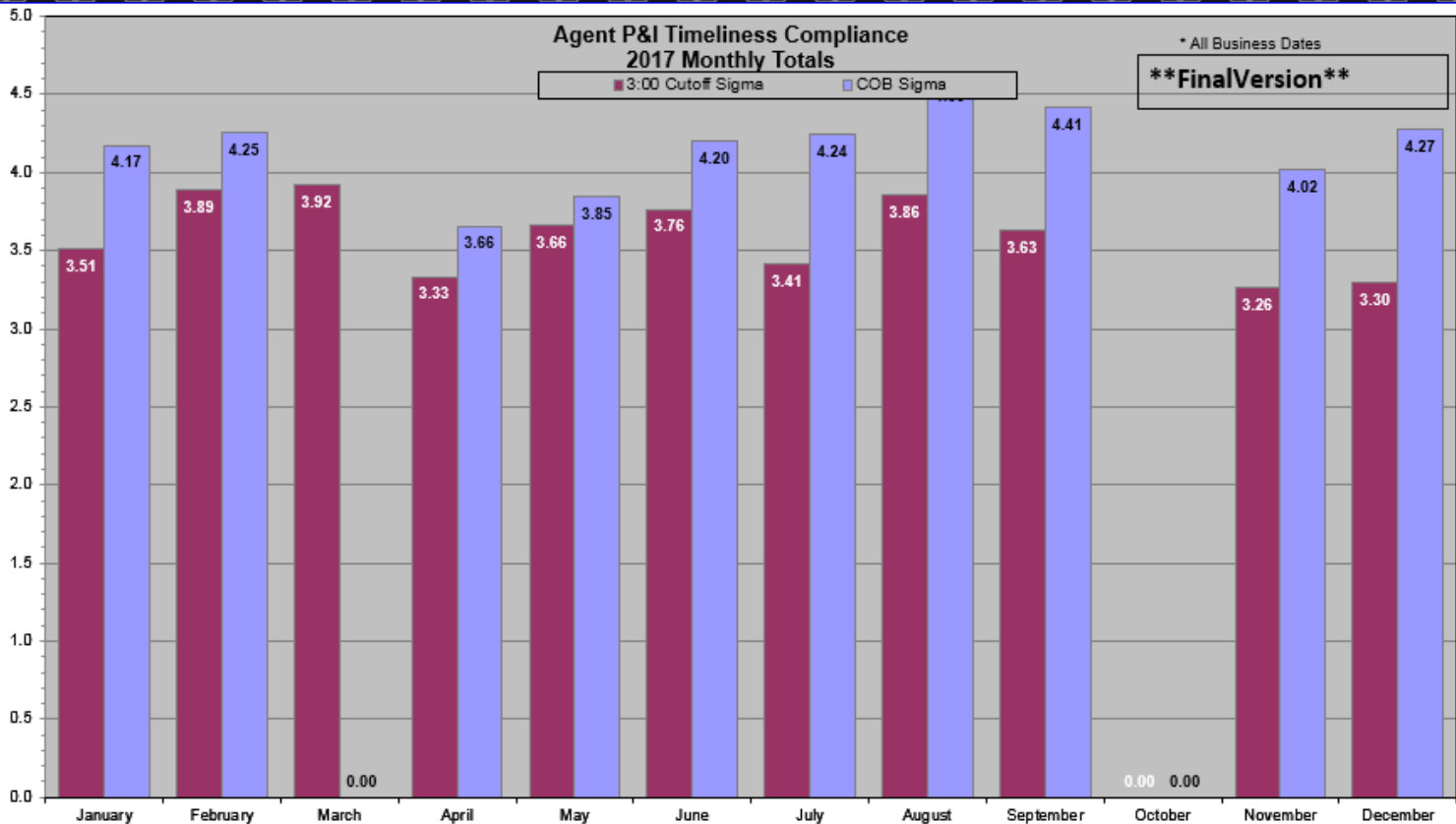
This report highlights the November 2017 performance of the top agents vs. industry targets. This report focuses on the following metrics:

**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 December 2017 was  $3.30\sigma$  (96.38%). This month's performance is below the target of  $3.67\sigma$  (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 December 2017 was  $4.27\sigma$  (99.72%). This month's performance is above the target of  $3.83\sigma$  (99.00%).

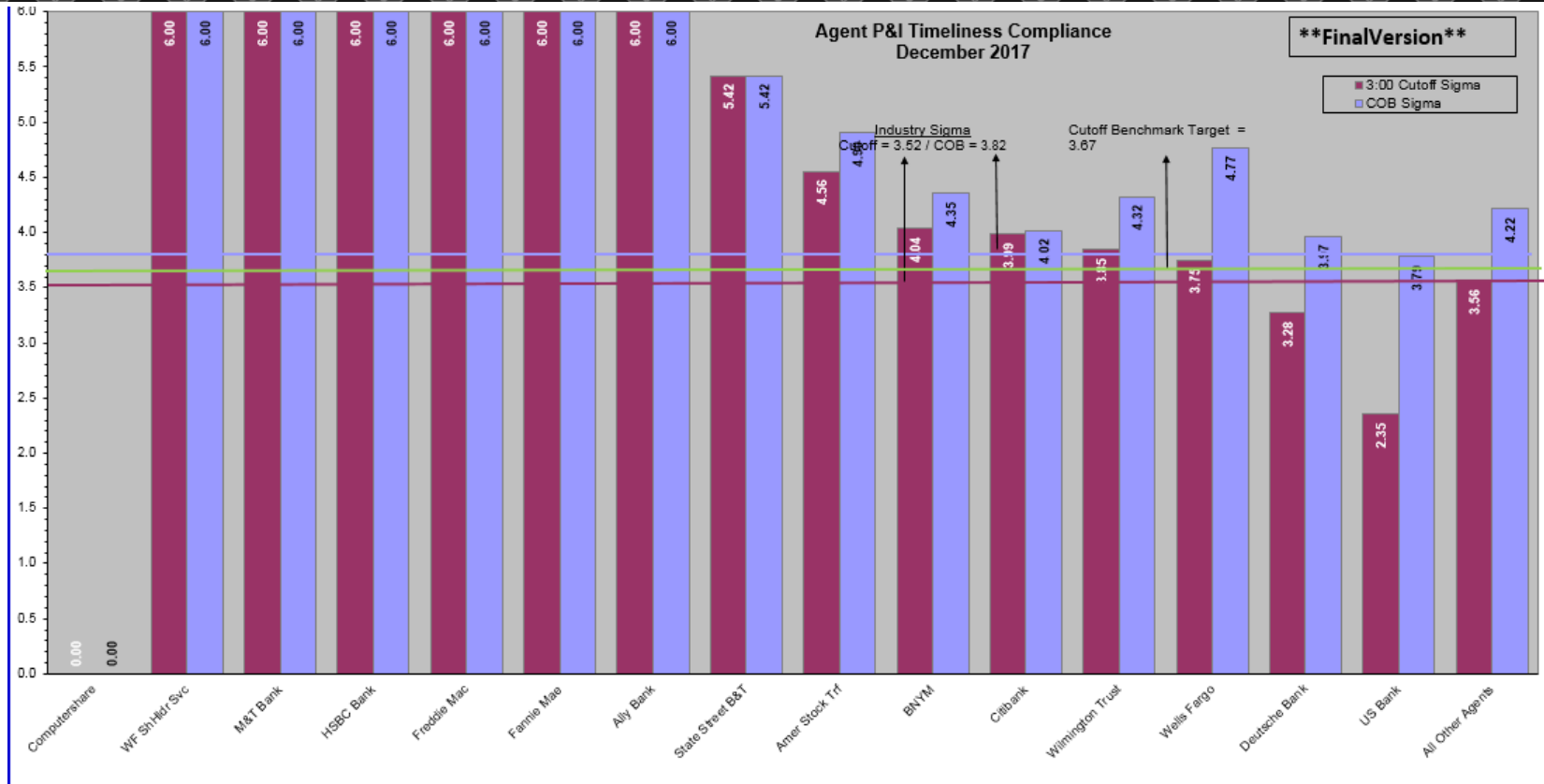
Please visit DTCC's web-site <http://dtcc.com/asset-services/asset-services-performance-metrics.aspx> for more detailed metric definitions and agent trend charts.

# 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	97.79%	99.15%	99.23%	96.67%	98.47%	98.82%	97.22%	99.07%	98.33%	102.87%	96.09%	96.39%	98.31%
Cutoff Sigma	3.51	3.89	3.92	3.33	3.66	3.76	3.41	3.86	3.63	6.00	3.26	3.30	3.62
Percent by COB	99.62%	99.71%	100.18%	98.45%	99.05%	99.66%	99.70%	99.90%	99.82%	105.36%	99.42%	99.72%	100.03%
COB Sigma	4.17	4.25	6.00	3.66	3.85	4.20	4.24	4.60	4.41	6.00	4.02	4.27	6.00

# P&I Timeliness Compliance – Agent Performance

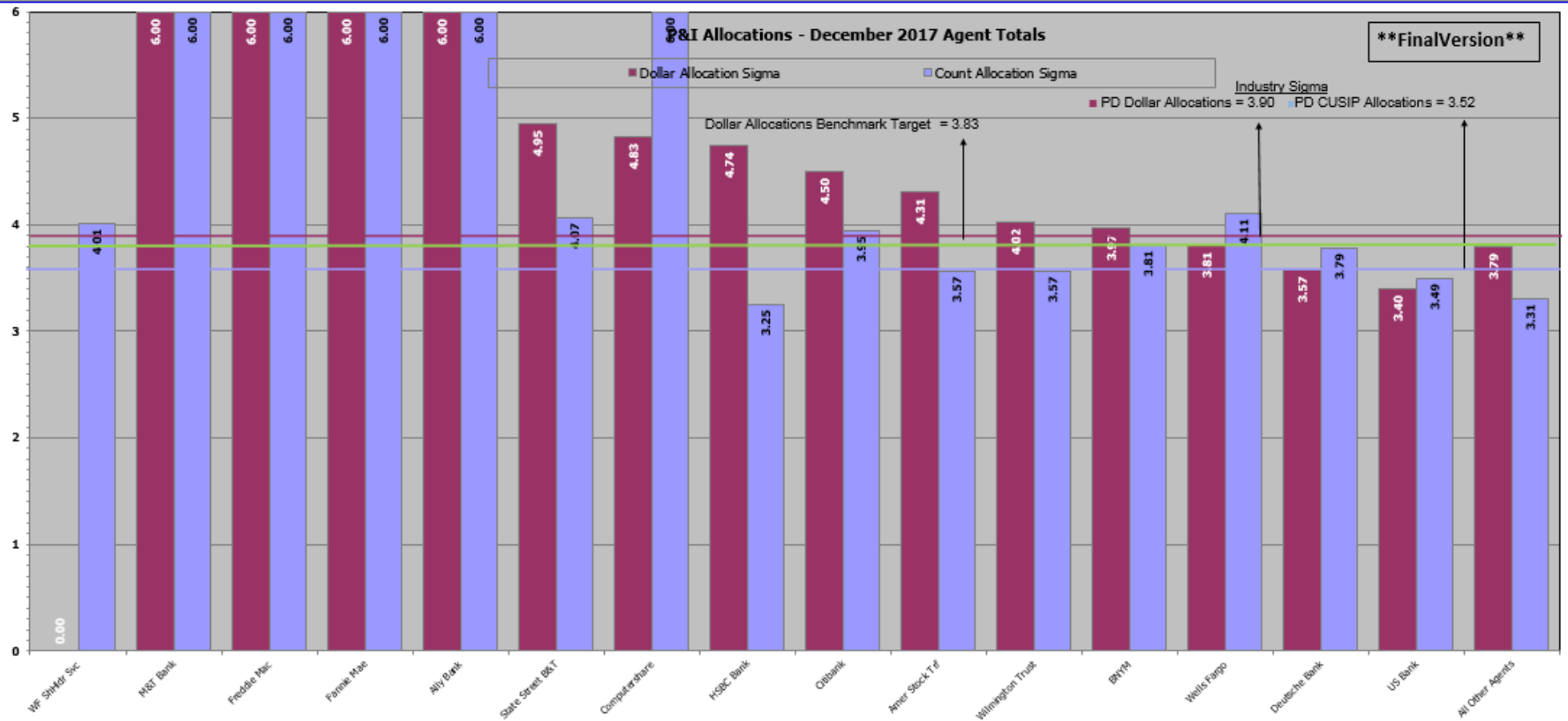


	Computershare	WF ShHldr Svc	M&T Bank	HSBC Bank	Freddie Mac	Fannie Mae	Ally Bank	State Street B&T	Amer Stock Trf	BNYM	Citibank	Wilmington Trust	Wells Fargo	Deutsche Bank	US Bank	All Other Agents
<b>% of Total Allocations</b>	13.75%	3.26%	0.00%	0.38%	0.83%	0.11%	0.12%	4.20%	2.47%	24.22%	3.81%	1.80%	11.34%	5.21%	14.60%	13.88%
<b>Percent by 3:00 Cutoff</b>	100.33%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.89%	99.45%	99.36%	99.05%	98.79%	96.21%	80.35%	98.05%
<b>Cutoff Sigma</b>	6.00	6.00	6.00	6.00	6.00	6.00	6.00	5.42	4.56	4.04	3.99	3.85	3.75	3.28	2.35	3.56
<b>Variance from Industry Cutoff</b>	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.12	1.26	0.74	0.69	0.55	0.45	-0.02	-0.94	0.27
<b>Percent by COB</b>	100.38%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.97%	99.78%	99.41%	99.76%	99.95%	99.32%	98.89%	99.67%
<b>COB Sigma</b>	6.00	6.00	6.00	6.00	6.00	6.00	6.00	5.42	4.90	4.35	4.02	4.32	4.77	3.97	3.79	4.22

# P&I Allocations Monthly Trend



# P&I Allocations – Agent Performance



AGENT	WF ShHldr Svc	M&T Bank	Freddie Mac	Fannie Mae	Ally Bank	State Street B&T	Computer share	HSBC Bank	Citibank	Amer Stock Trf	Wilmington n Trust	BNYM	Wells Fargo	Deutsche Bank	US Bank	All Other Agents
<b>Total Expected Total of Industry</b>	<b>\$11.361</b>	<b>\$0.015</b>	<b>\$2.888</b>	<b>\$0.396</b>	<b>\$0.428</b>	<b>\$14.540</b>	<b>\$47.330</b>	<b>\$1.027</b>	<b>\$12.805</b>	<b>\$8.582</b>	<b>\$5.928</b>	<b>\$83.327</b>	<b>\$37.961</b>	<b>\$17.445</b>	<b>\$47.526</b>	<b>\$50.448</b>
<b>Allocation % of Industry</b>	<b>3.32%</b>	<b>0.00%</b>	<b>0.84%</b>	<b>0.12%</b>	<b>0.13%</b>	<b>4.25%</b>	<b>13.84%</b>	<b>0.30%</b>	<b>3.74%</b>	<b>2.51%</b>	<b>1.73%</b>	<b>24.36%</b>	<b>11.10%</b>	<b>5.10%</b>	<b>13.90%</b>	<b>14.75%</b>
<b>Allocation \$ Sigma</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>4.95</b>	<b>4.83</b>	<b>4.74</b>	<b>4.50</b>	<b>4.31</b>	<b>4.02</b>	<b>3.97</b>	<b>3.81</b>	<b>3.57</b>	<b>3.40</b>	<b>3.79</b>
<b>Variance from Industry \$ Sigma</b>	<b>2.16</b>	<b>2.16</b>	<b>2.16</b>	<b>2.16</b>	<b>2.16</b>	<b>1.11</b>	<b>0.99</b>	<b>0.90</b>	<b>0.66</b>	<b>0.47</b>	<b>0.18</b>	<b>0.13</b>	<b>-0.03</b>	<b>-0.26</b>	<b>-0.44</b>	<b>-0.05</b>
<b>CUSIP Allocations %</b>	<b>99.40%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>99.49%</b>	<b>101.26%</b>	<b>96.02%</b>	<b>99.28%</b>	<b>98.07%</b>	<b>98.08%</b>	<b>98.96%</b>	<b>99.55%</b>	<b>98.89%</b>	<b>97.68%</b>	<b>96.49%</b>
<b>CUSIP Allocations Sigma</b>	<b>4.01</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>6.00</b>	<b>4.07</b>	<b>6.00</b>	<b>3.25</b>	<b>3.95</b>	<b>3.57</b>	<b>3.57</b>	<b>3.81</b>	<b>4.11</b>	<b>3.79</b>	<b>3.49</b>	<b>3.31</b>
<b>Variance from Industry CUSIP Sigma</b>	<b>0.49</b>	<b>2.48</b>	<b>2.48</b>	<b>2.48</b>	<b>2.48</b>	<b>0.55</b>	<b>2.48</b>	<b>-0.27</b>	<b>0.42</b>	<b>0.04</b>	<b>0.05</b>	<b>0.29</b>	<b>0.58</b>	<b>0.26</b>	<b>-0.03</b>	<b>-0.21</b>