Asset Services Sigma- Agent Performance Report

November 2017 Data

December 31, 2017

Executive Summary

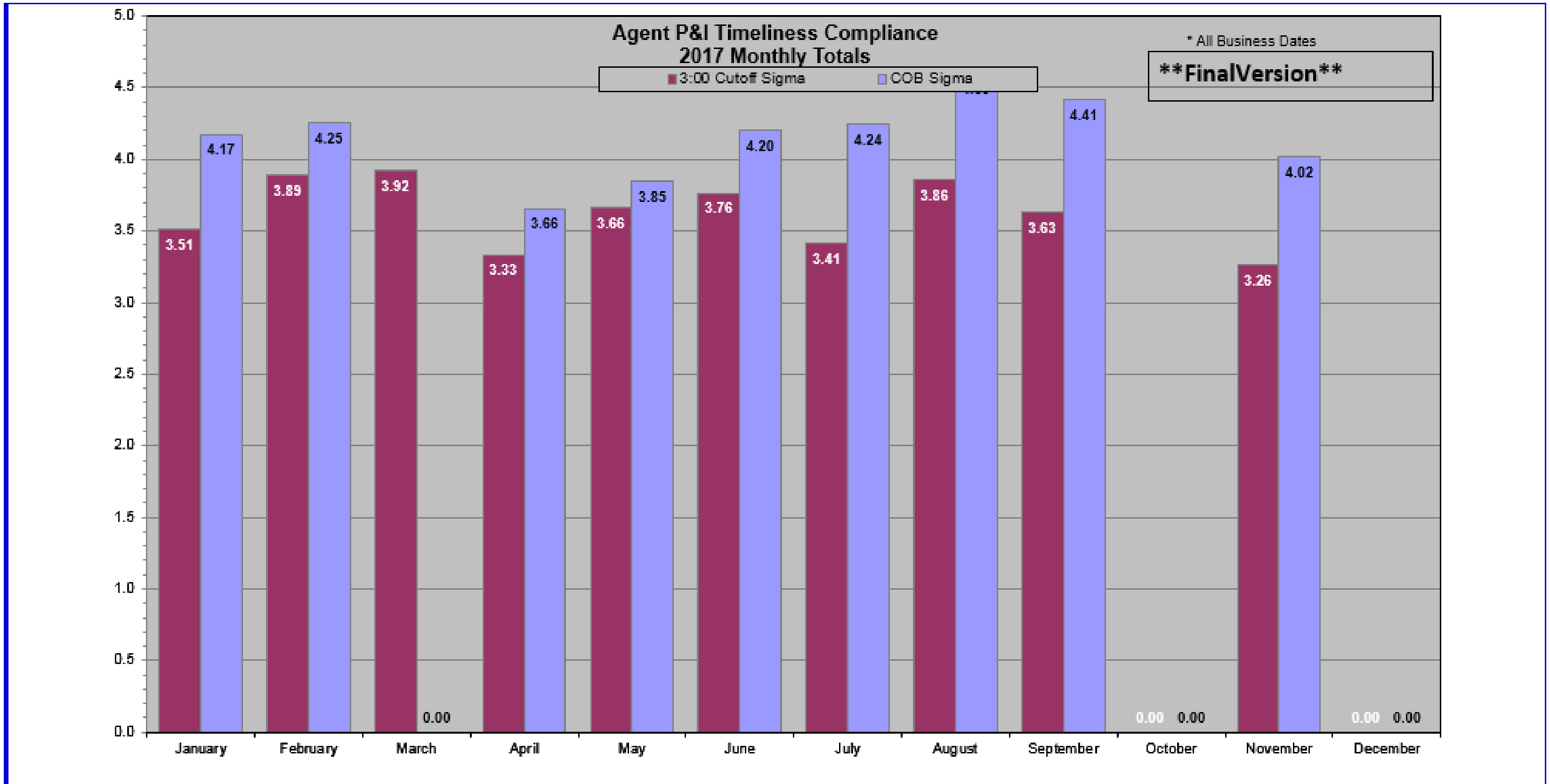
This report highlights the November 2017 performance of the top agents vs. industry targets. This report focuses on the following metrics:

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 November 2017 was 3.26σ (96.09%). This month's performance is below 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 November 2017 was 4.02σ (99.42%). This month's performance is above the target of 3.83σ (99.00%).

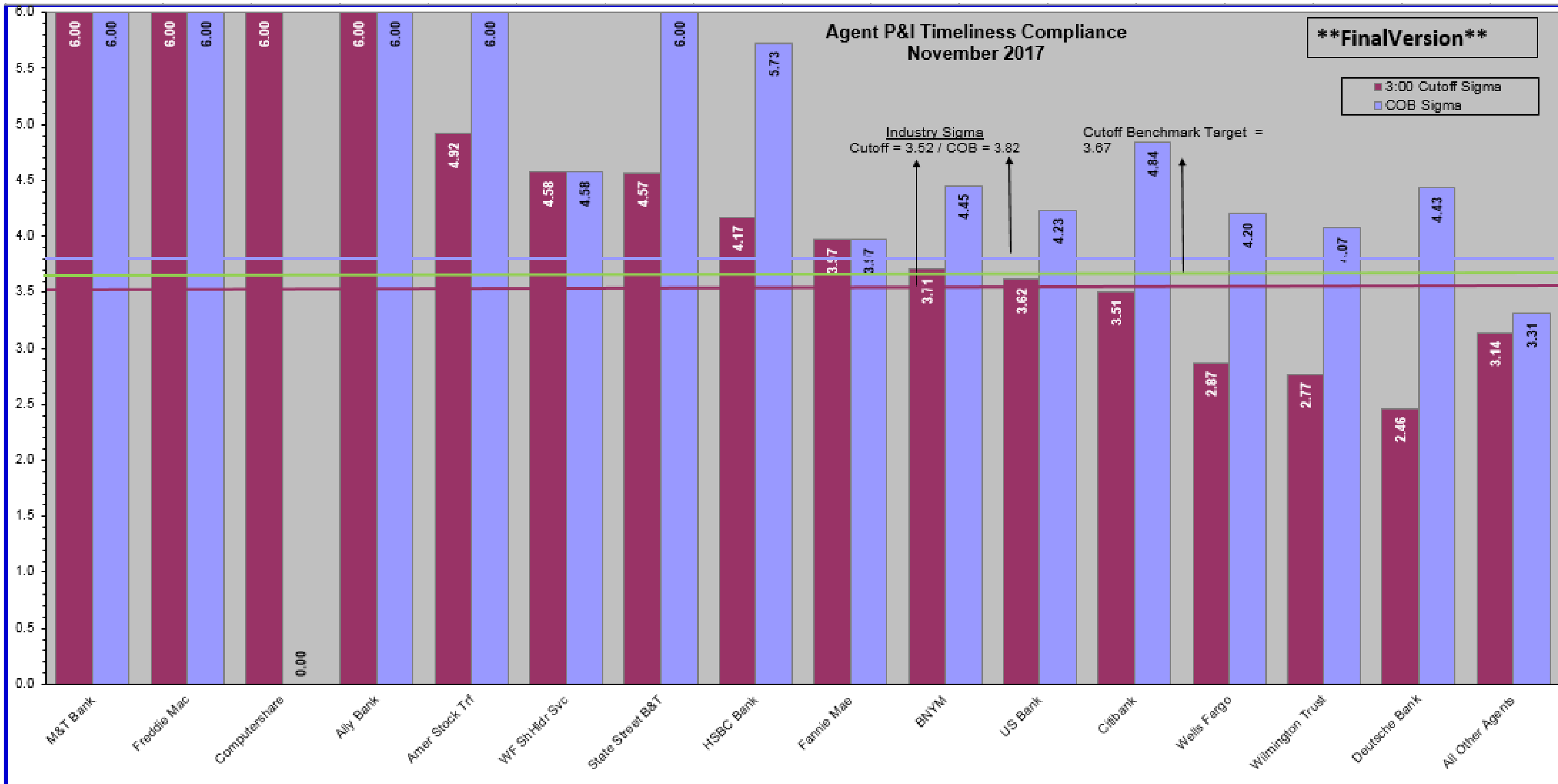
Please visit DTCC's web-site http://dtcc.com/asset-services/asset-services-performance-metrics.aspx for more detailed metric definitions and agent trend charts.

P&I Timeliness Compliance Monthly Trend



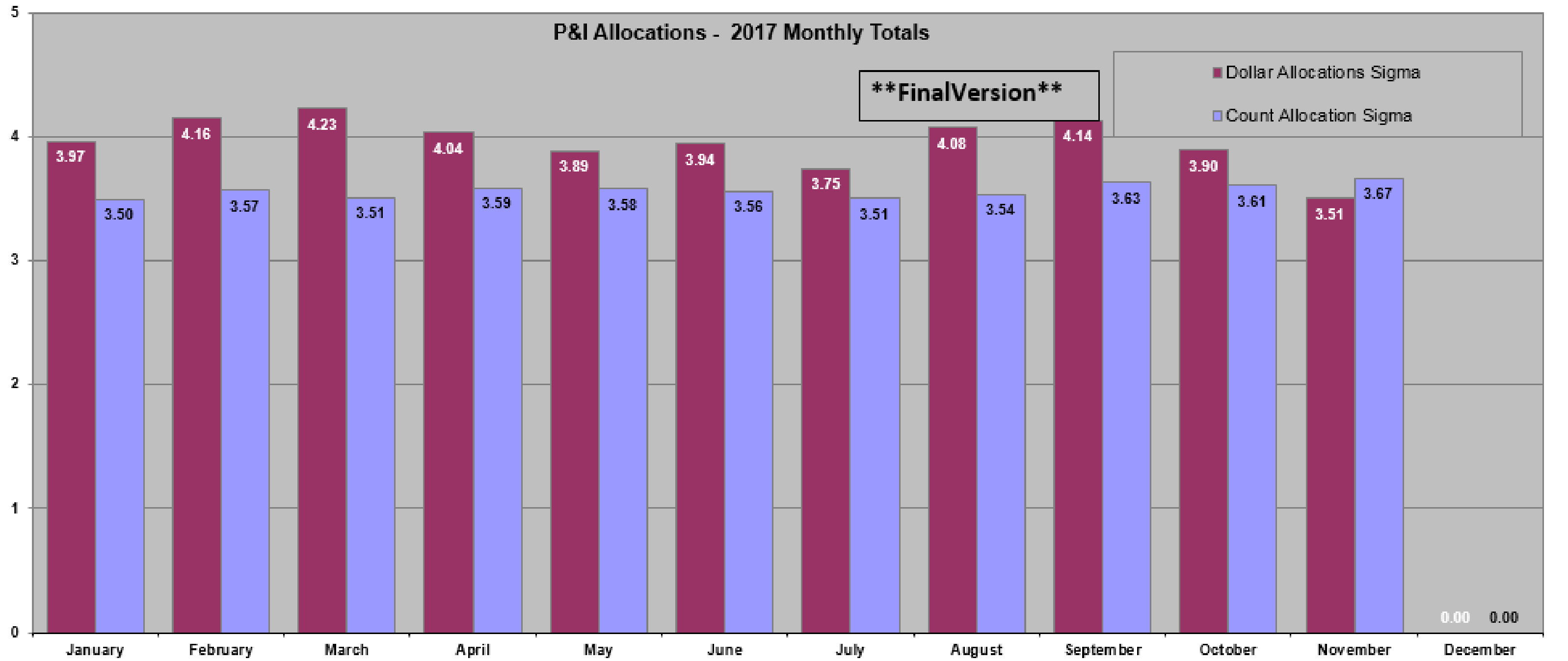
	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Percent by 3:00 Cut-off	97.79%	99.15%	99.23%	96.67%	98.47%	98.82%	97.22%	99.07%	98.33%	102.87%	96.09%		98.52%
Cutoff Sigma	3.51	3.89	3.92	3.33	3.66	3.76	3.41	3.86	3.63	6.00	3.26		3.67
Percent by COB	99.62%	99.71%	100.18%	98.45%	99.05%	99.66%	99.70%	99.90%	99.82%	105.36%	99.42%		100.06%
COB Sigma	4.17	4.25	6.00	3.66	3.85	4.20	4.24	4.60	4.41	6.00	4.02		6.00

P&I Timeliness Compliance – Agent Performance



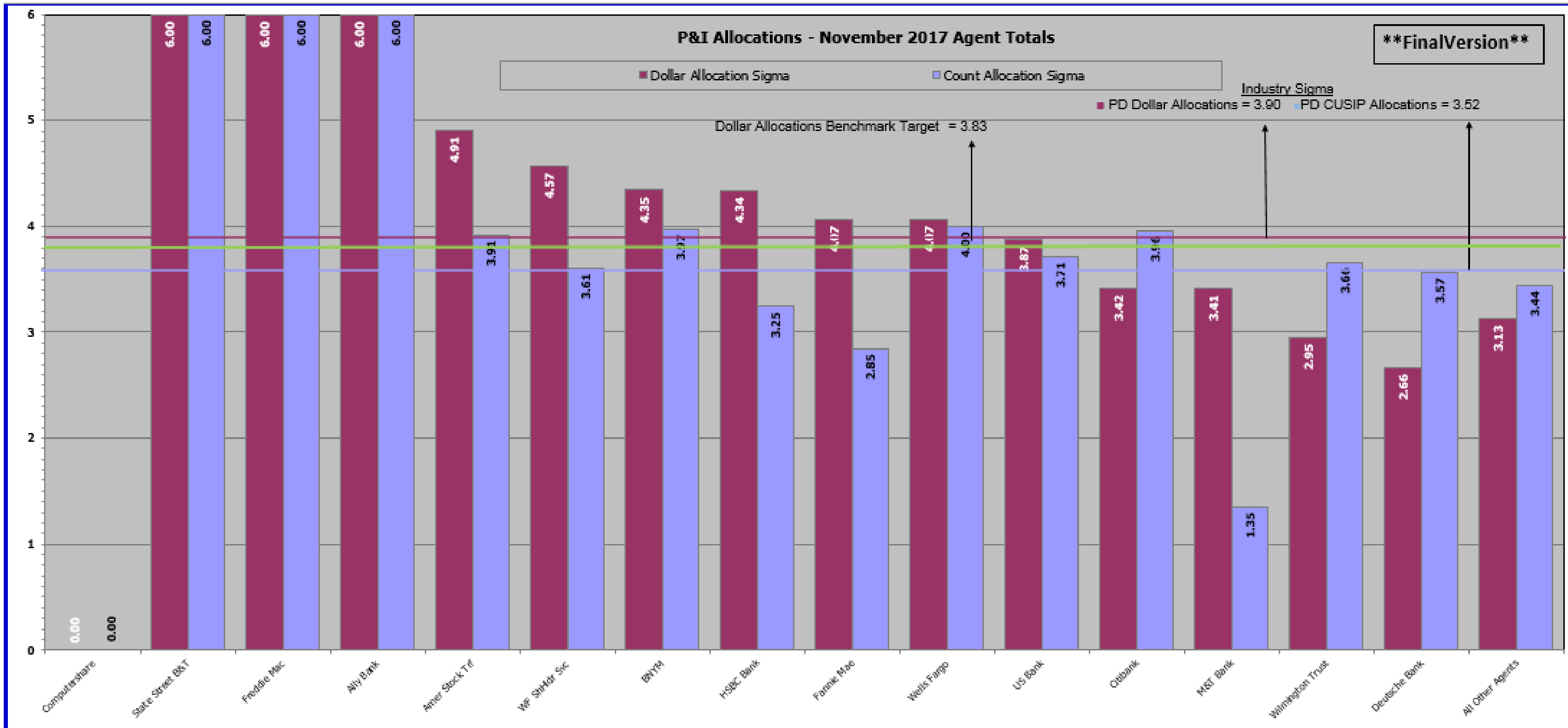
	M&T Bank	Freddie Mac	Computershare	Ally Bank	Amer Stock Trf	WF ShHldr Svc	State Street B&T	HSBC Bank	Fannie Mae	BNYM	US Bank	Citibank	Wells Fargo	Wilmington Trust	Deutsche Bank	All Other Agents
% of Total Allocations	0.00%	0.63%	9.19%	0.15%	1.77%	2.17%	0.50%	1.18%	0.16%	27.10%	17.29%	5.28%	12.69%	2.11%	7.10%	12.67%
Percent by 3:00 Cut-off	100.00%	100.00%	100.00%	100.00%	99.97%	99.90%	99.89%	99.62%	99.33%	98.64%	98.29%	97.77%	91.51%	89.78%	83.26%	94.93%
Cutoff Sigma	6.00	6.00	6.00	6.00	4.92	4.58	4.57	4.17	3.97	3.71	3.62	3.51	2.87	2.77	2.46	3.14
Variance from Industry Cutoff	2.74	2.74	2.74	2.74	1.65	1.32	1.31	0.91	0.71	0.45	0.36	0.25	-0.39	-0.49	-0.80	-0.12
Percent by COB	100.00%	100.00%	100.28%	100.00%	100.00%	99.90%	100.00%	100.00%	99.33%	99.84%	99.69%	99.96%	99.66%	99.49%	99.83%	96.52%
COB Sigma	6.00	6.00	6.00	6.00	6.00	4.58	6.00	5.73	3.97	4.45	4.23	4.84	4.20	4.07	4.43	3.31

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	$268.399	$306.869	$273.770	$267.376		$3186.294
Allocation $ Percent	99.32%	99.60%	99.69%	99.45%	99.15%	99.28%	98.77%	99.50%	99.58%	99.18%	97.76%		99.22%
Allocation $ Sigma	3.97	4.16	4.23	4.04	3.89	3.94	3.75	4.08	4.14	3.90	3.51		3.92
Unallocated Impact (Billions $)	$1.847	$1.013	$1.055	$1.625	$2.408	$2.456	$3.569	$1.344	$1.288	$2.253	$6.002		$24.862
Total CUSIP Expected	285,717	371,199	310,589	267,655	276,563	371,101	284,940	369,729	304,201	270,222	268,197		3,380,113
CUSIP Allocations %	97.72%	98.09%	97.79%	98.16%	98.13%	98.05%	97.77%	97.93%	98.35%	98.26%	98.49%		98.06%
CUSIP Allocations Sigma	3.50	3.57	3.51	3.59	3.58	3.56	3.51	3.54	3.63	3.61	3.67		3.57
Unallocated Impact (Count)	6,528	7,107	6,876	4,928	5,179	7,231	6,361	7,667	5,021	4,692	4,061		65,651

P&I Allocations – Agent Performance



AGENT	Computershare	State Street B&T	Freddie Mac	Ally Bank	Amer Stock Trf	WF ShHldr Svc	BNYM	HSBC Bank	Fannie Mae	Wells Fargo	US Bank	Citibank	M&T Bank	Wilmington Trust	Deutsche Bank	All Other Agents
Total Expected / % of Industry	$25.187	$1.279	$1.695	$0.422	$4.851	$5.949	$70.525	$1.096	$0.431	$32.945	$45.461	$14.028	$0.012	$5.423	$20.958	$37.116
	9.42%	0.48%	0.63%	0.16%	1.81%	2.23%	26.38%	0.41%	0.16%	12.32%	17.00%	5.25%	0.00%	2.03%	7.84%	13.88%
Allocation $ Percent	100.00%	100.00%	100.00%	100.00%	99.97%	99.89%	99.78%	99.77%	99.49%	99.49%	99.12%	97.24%	97.18%	92.69%	87.76%	94.84%
Allocation $ Sigma	#NUM!	6.00	6.00	6.00	4.91	4.57	4.35	4.34	4.07	4.07	3.87	3.42	3.41	2.95	2.66	3.13
Variance from Industry $ Sigma	#NUM!	2.49	2.49	2.49	1.41	1.06	0.84	0.83	0.56	0.56	0.37	-0.09	-0.10	-0.55	-0.84	-0.38
CUSIP Allocations %	101.64%	100.00%	100.00%	100.00%	99.21%	98.25%	99.32%	95.96%	91.09%	99.37%	98.66%	99.30%	44.12%	98.46%	98.06%	97.40%
CUSIP Allocations Sigma	#NUM!	6.00	6.00	6.00	3.91	3.61	3.97	3.25	2.85	4.00	3.71	3.96	1.35	3.66	3.57	3.44
Variance from Industry CUSIP Sigma	#NUM!	2.33	2.33	2.33	0.25	-0.06	0.30	-0.42	-0.82	0.33	0.05	0.29	-2.31	-0.01	-0.10	-0.22