

Asset Services Sigma- Agent Performance Report

October 2018 Data

Executive Summary

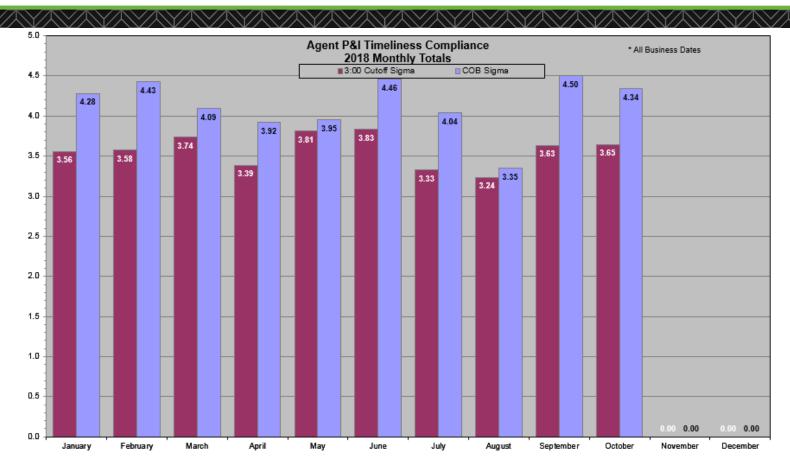
This report highlights the October 2018 performance of the top agents vs. industry targets. This report focuses on the following metrics:

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 October 2018 was 3.65σ (98.40%). 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 October 2018 was 4.34σ (99.78)%. 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.

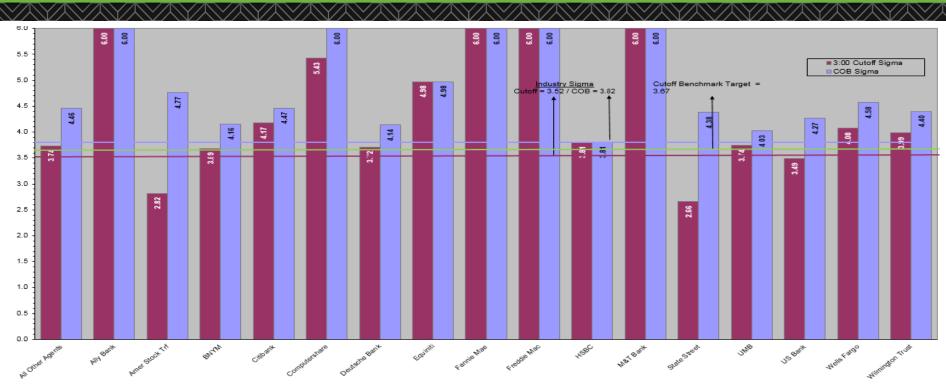
P&I Allocations Monthly Trend



	January	February	March	April	Mag	June	July	August	September	October	November	December	YTD
Percent by 3:00 Cut-off	98.03%	98.12%	98.73%	97.05%	98.96%	99.01%	96.61%	95.88%	98.36%	98.40%			97.92%
Cutoff Sigma	3.56	3.58	3.74	3.39	3.81	3.83	3.33	3.24	3.63	3.65			3.54
Percent by COB	99.73%	99.83%	99.52%	99.23%	99.29%	99.85%	99.44%	96.76%	99.87%	99.78%			99.34%
COB Sigma	4.28	4.43	4.09	3.92	3.95	4.46	4.04	3.35	4.50	4.34			3.98

DTCC Internal (Green)

P&I Timeliness Compliance – Agent Performance



	All Other Agents	Ally Bank	Amer Stock Trf	BNYM	Citibank	Computers hare	Deutsche Bank	Equiniti	Fannie Mae	Freddie Mac	HSBC	M&T Bank	State Street	US Bank	Vells Fargo	¥ilmington Trust
% of Total Allocations	15.74%	0.36%	1.70%	24.47%	5.51%	9.08%	5.49%	3.44%	0.11%	1.91%	0.34%	0.00%	2.75%	16.38%	9.11%	3.45%
Percent by 3:00 Cut- off	98.74%	100.00%	90.67%	98.57%	99.63%	100.00%	98.66%	99.97%	100.00%	100.00%	98.96%	100.00%	87.78%	97.66%	99.50%	99.35%
Cutoff Sigma	3.74	6.00	2.82	3.69	4.17	5.43	3.72	4.98	6.00	6.00	3.81	6.00	2.66	3.49	4.08	3.99
Yariance from Industry Cutoff	0.09	2.35	-0.82	0.04	0.53	1.78	0.07	1.33	2.35	2.35	0.16	2.35	-0.98	-0.16	0.43	0.34
Percent by COB	99.85%	100.00%	99.95%	99.61%	99.85%	100.00%	99.58%	99.97%	100.00%	100.00%	98.96%	100.00%	99.80%	99.72%	99.90%	99.82%
COB Sigma	4.46	6.00	4.77	4.16	4.47	6.00	4.14	4.98	6.00	6.00	3.81	6.00	4.38	4.27	4.58	4.40

P&I Allocations Monthly Trend



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P&I Allocations – Agent Performance

