Fighting Fraud at Mastercard

Thousands of times every second

Ted Boehm

October 23, 2019



Forward-Looking Statements

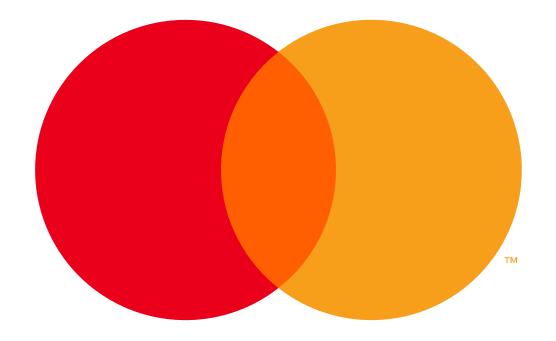
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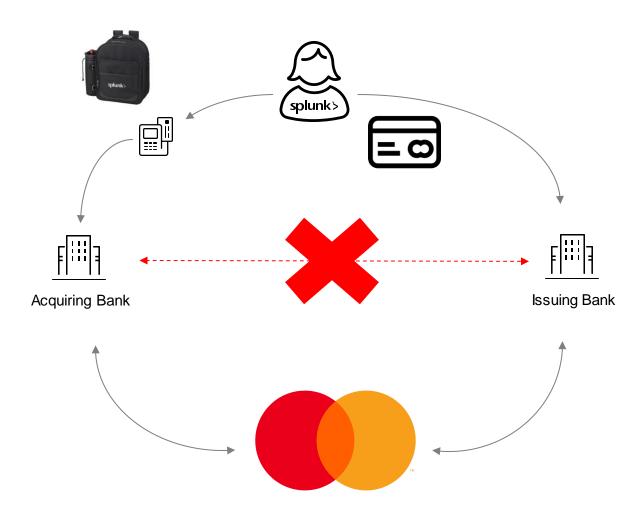
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Mastercard

Every day, everywhere, we use our technology and expertise to make payments safe, simple and smart.



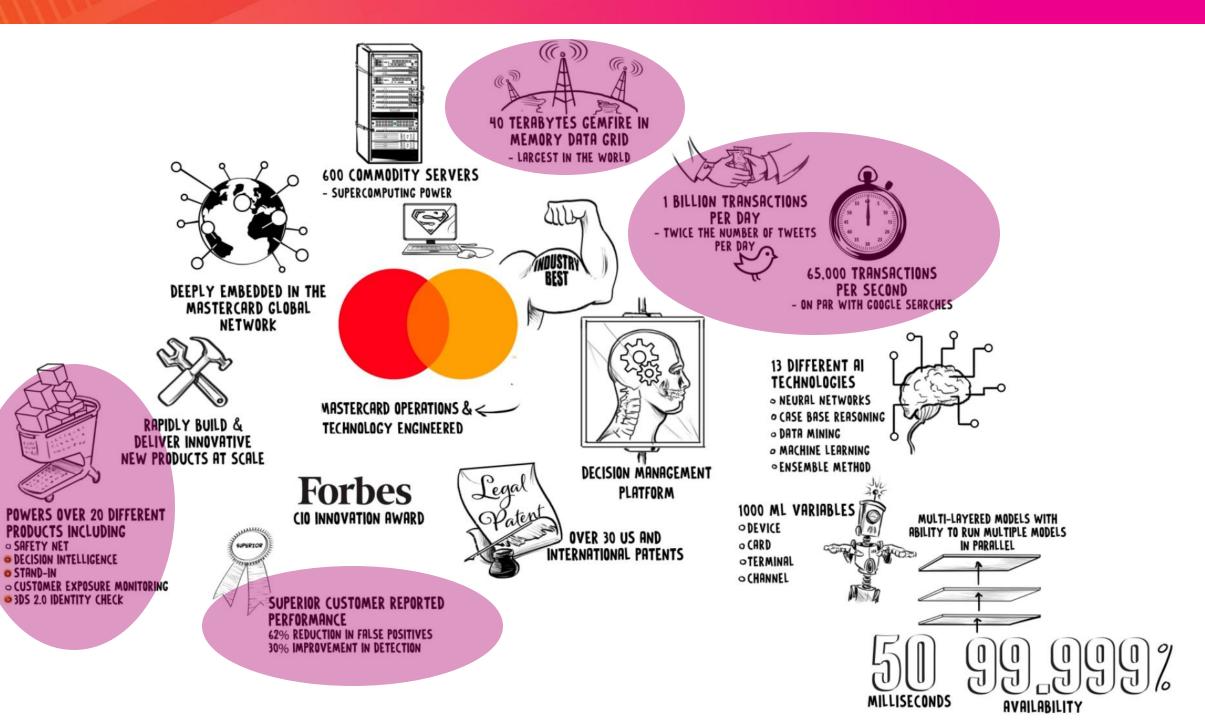
The Payment Transaction



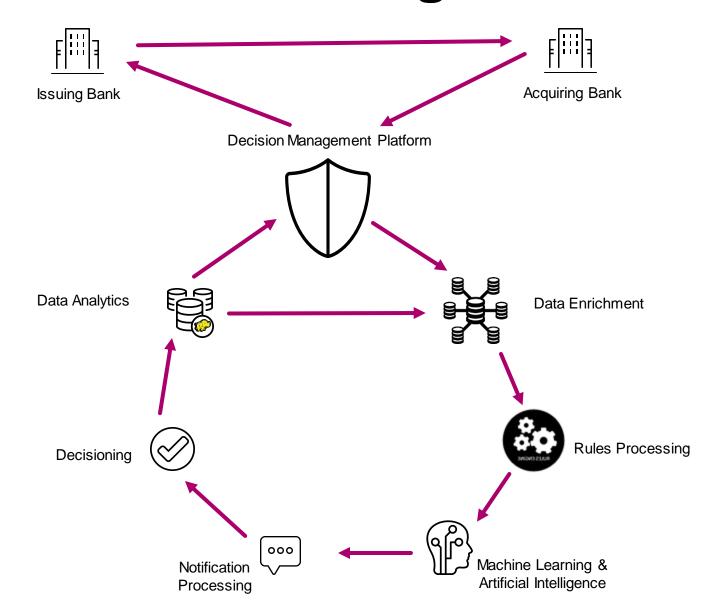


The Decision Management Platform

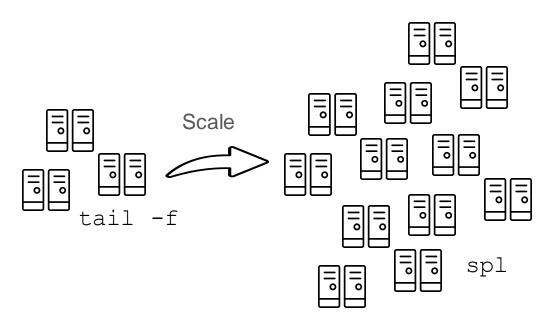


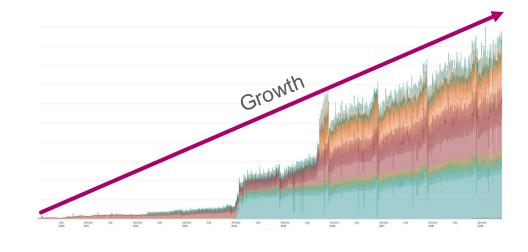


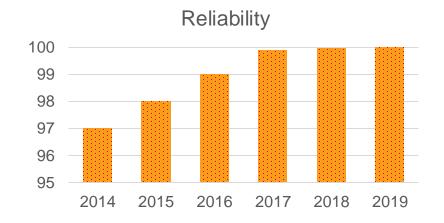
What is the Decision Management Platform?



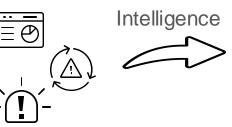
Mastercard Journey

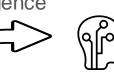














Best Practices

Design



Hardware



Continual



Report & Review



Avoid "The Blame Game"





Transactions timing out for smaller customers

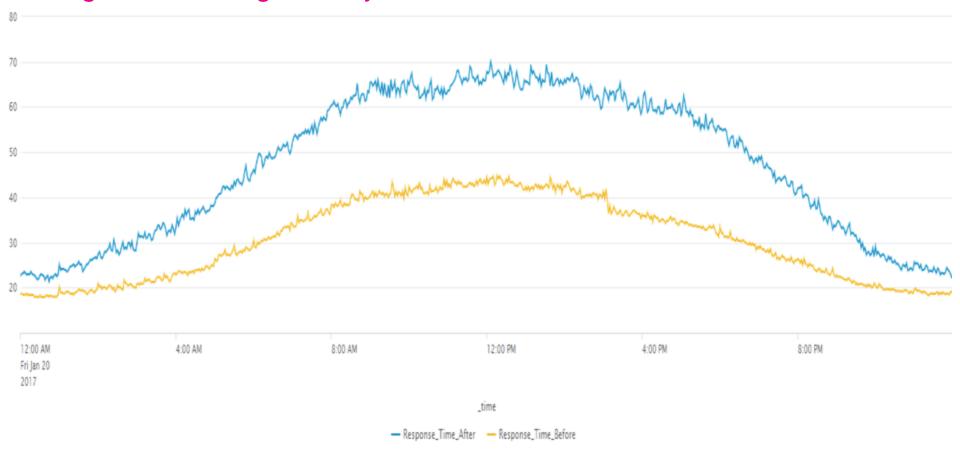
Advantage - Reducing Timeouts, CPU



	Before			After		
BIN	TOTAL	SUCCESS	PERCENT	TOTAL	SUCCESS	PERCENT
501624	1881	1816	96.5444%	1576	1576	100.0000%
512267	2136	1999	93.5861%	2367	2367	100.0000%
512780	431	368	85.3828%	421	421	100.0000%
512945	216	167	77.3148%	210	210	100.0000%
513039	2061	1931	93.6924%	2198	2198	100.0000%
515806	254	200	78.7402%	284	284	100.0000%
517531	2805	2720	96.9697%	3581	3581	100.0000%
521175	931	855	91.8367%	1017	1017	100.0000%
529796	1329	1244	93.6042%	1533	1533	100.0000%
536332	320	309	96.5625%	377	377	100.0000%
542568	335	247	73.7313%	320	320	100.0000%
542978	258	199	77.1318%	265	265	100.0000%
543628	253	204	80.6324%	230	230	100.0000%
543831	13049	12998	99.6092%	12325	12325	100.0000%
544028	458	396	86.4629%	575	575	100.0000%
545441	546	458	83.8828%	800	800	100.0000%
552727	1627	1599	98.2790%	1920	1920	100.0000%
556374	2981	2872	96.3435%	3404	3404	100.0000%
557972	131	84	64.1221%	108	108	100.0000%
589526	410	320	78.0488%	390	390	100.0000%



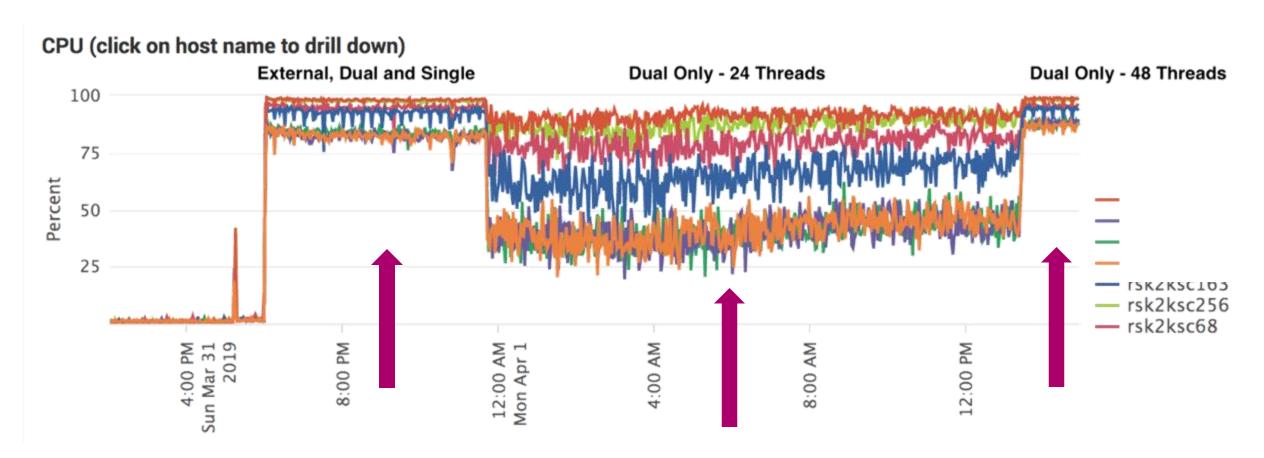
Disadvantage - Increasing Latency





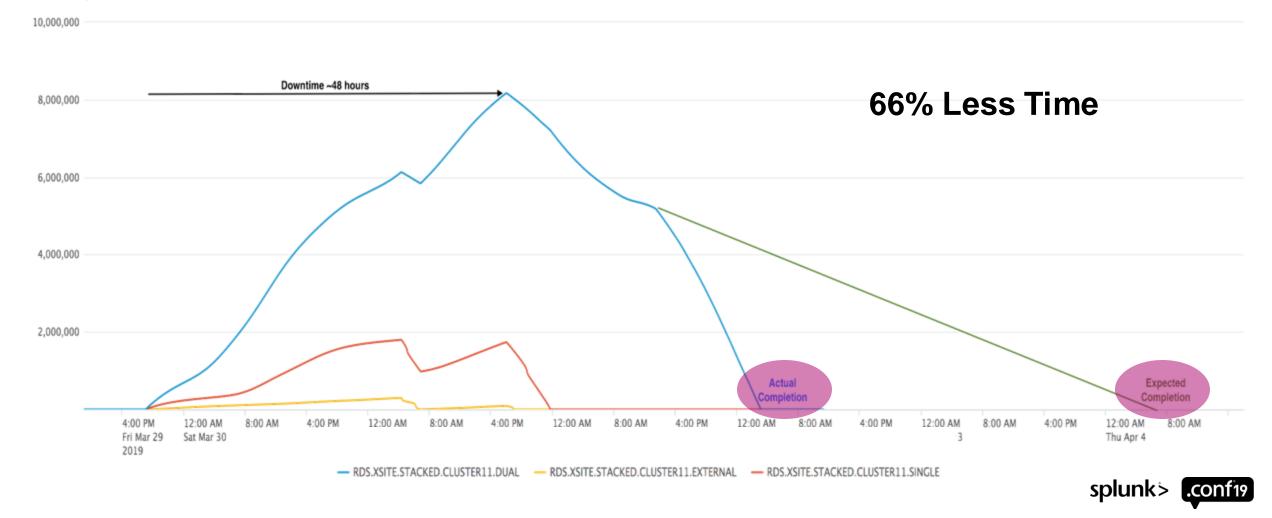
Draining Optimizations

Draining Optimization



Draining Optimization

Queue Depth





Q&A

Ted Boehm – Chief Platform Architect

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Thank

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