

Big Workflow Execution & Monitoring



Ryan Johnston, Director, North American Operations



Camunda BPM Enterprise Edition

- Initially offered in 2013
- Today 185 customers in 25 countries
- > 85% of customers use Camunda for core business processes
- Company revenue growth 2017: 89%



AT&T















Current Camunda BPM Customers (A Sampling)























Camunda BPM Performance

»In general, we may conclude that Camunda performed better and more stable for all metrics when compared with WfMS A and WfMS B.«

Micro-Benchmarking BPMN 2.0 Workflow Management Systems with Workflow Patterns,

June 2016, University of Stuttgart, Germany and University of Lugano, Switzerland



... but traditional BPM doesn't work for everyone.

- Microservices orchestration?
- Complex, distributed systems?
- Very high volumes?
 - Where immediate consistency isn't required and
 - Massive scaling is a <u>must</u>.







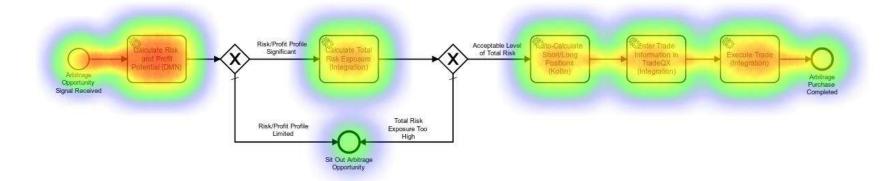






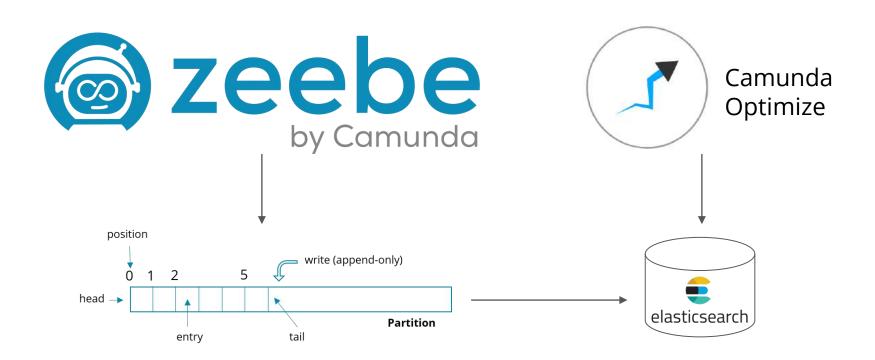
The Case for Workflow

- Distribute Work
- Handle Events
- Allow for Asynchronous Processing
- Provide Visibility



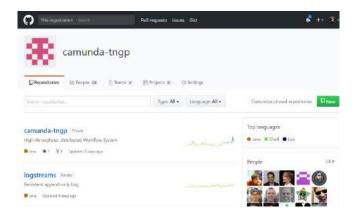


Enter Big Workflow





What Happened to TNGP?



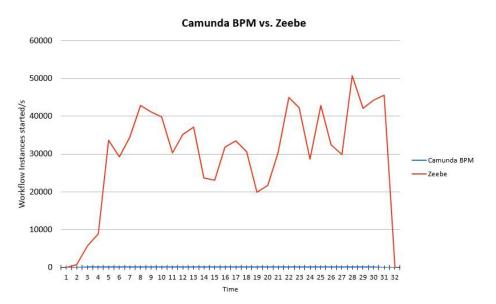
is now:





Performance: Zeebe vs. Camunda BPM

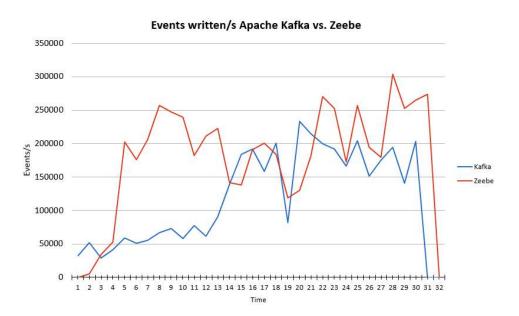






Performance: Zeebe vs. Kafka

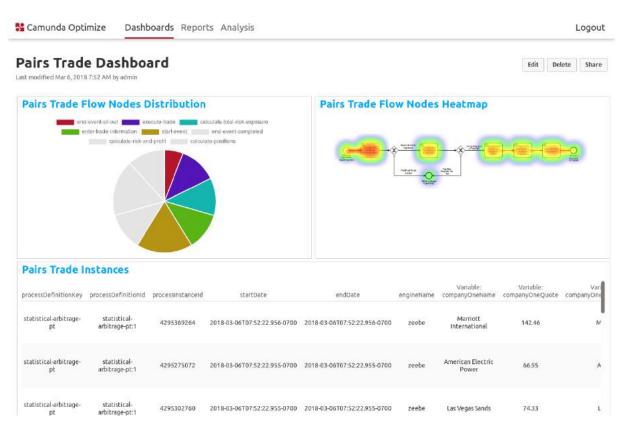






Optimize: Business Activity Monitoring for Workflows

- Reports
- Alerts
- Analysis

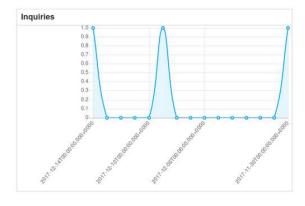




Optimize: Build Custom Reports

Invoice Monitor Last nuclided day 28, 1768 #250 PM to phaseon has narrows Heatmap Heatmap An opposite the phaseon has narrows Heatmap

Charts

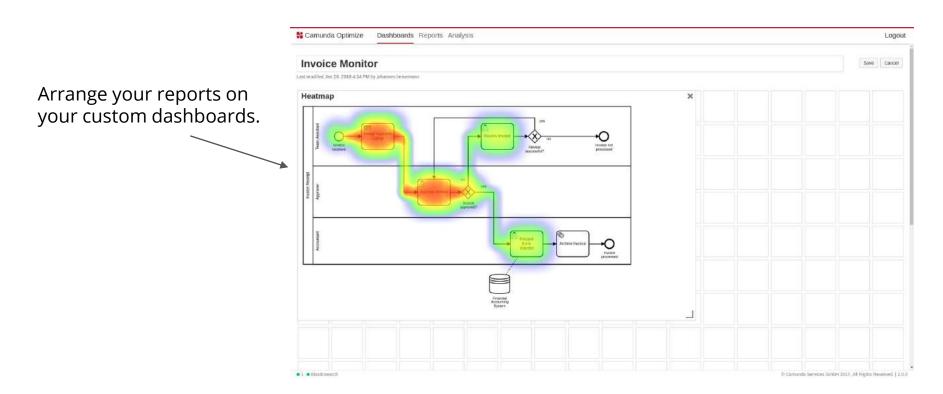


Tabular Reports

Incoming leads	
Start Date of Process Instance - Day	Count Process Instance Frequency
2017-12-14T00:00:00.000+0000	1
2017-12-13T00:00:00.000+0000	0
2017-12-12T00:00:00.000+0000	0
2017-12-11T00:00:00.000+0000	0
2017-12-10T00:00:00.000+0000	0
2017-12-09T00:00:00.000+0000	1
2017-12-08T00:00:00.000+0000	0
2017-12-07T00:00:00.000+0000	0
2017-12-06T00:00:00.000+0000	0
2017-12-05T00:00:00.000+0000	0
2047 40 04700-00-00 000 0000	0



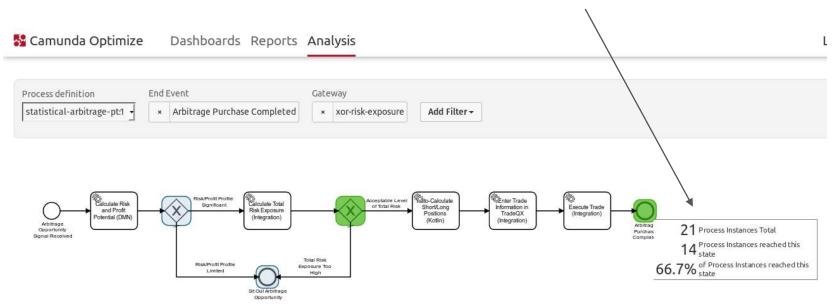
Optimize: Design Custom Dashboards





Optimize: Branch Analysis

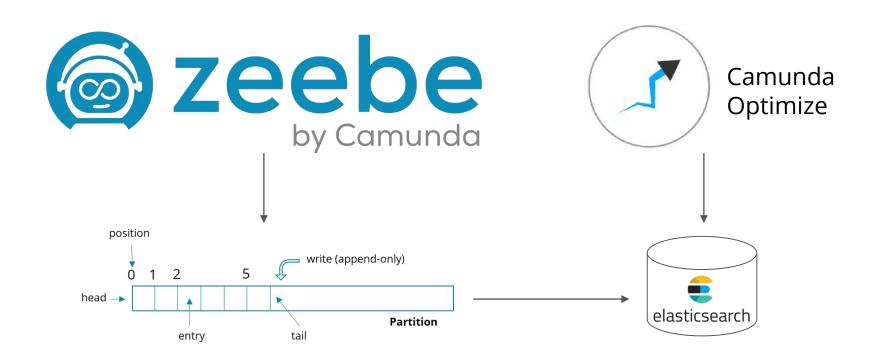
Analyze the outcomes of your instances based on gateways and events.





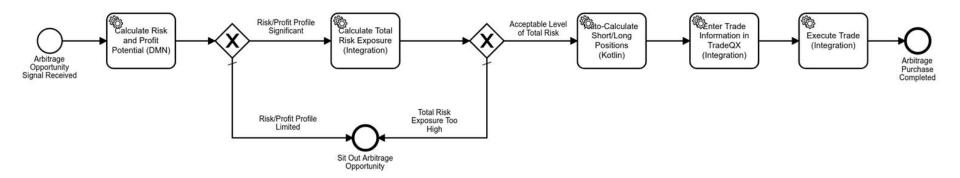
Zeebe and Optimize Sitting in a Tree...







A Real World Use Case with Zeebe





Pairs Trading - A Statistical Arbitrage Strategy

- Monitors the performance of two historically correlated securities.
- If the correlation weakens, bet that the spread will converge.















Statistical Arbitrage

- Timing is everything!
- We don't care about being right all the time.
- We need to make lots of bets and be right > 50% of the time.

So?

- Volume...
- ... and performance are critical.





Statistical Arbitrage Performance - Zeebe vs. Camunda BPM

