

Key Features

Low Latency



In production with <2ms reads <10ms writes

Scalability



Billions of operations, hundreds of Terabytes across many nodes

Multi-Cloud



Kubernetes based deployment works on VPCs, on-premise or across multiple cloud providers

Geo Distribution



Data may be spread across AZs, regions and even cloud providers while supporting GDPR/etc.

Resilience & HA

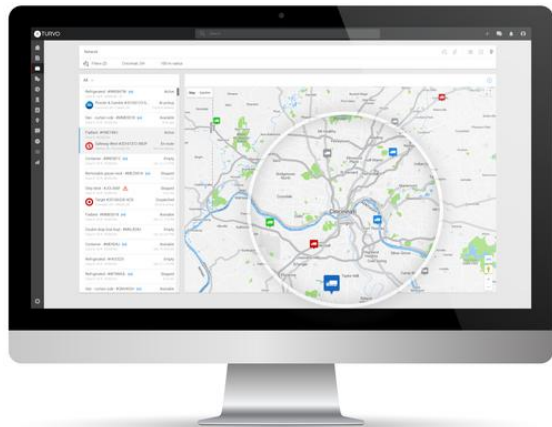


Survives multiple failures, even entire data centers

TCO



Lower cost per operation vs NoSQL, Amazon DynamoDB, etc.



- Real time fleet location and shipment location
- Handles 1000s of real-time geospatial updates, events and other supply chain data every second
- Customers and partners include Ryder and DHL

Low Latency



Goal was 5-10ms; achieved <2ms for writes; < 1ms for reads

Scalability



30TB with 5x compression; ~3500 transactions/sec
Using TTL to auto-expire old data

TCO

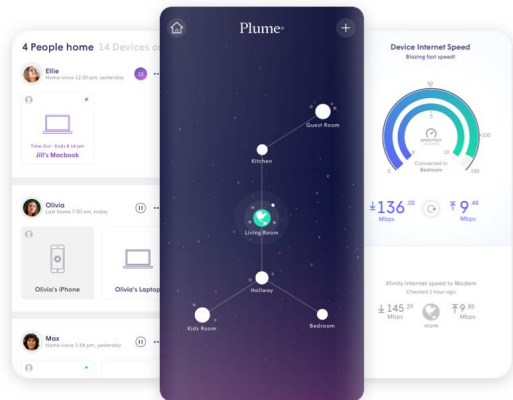


Require a low cost of storage, and low cost of operation
Achieved lower TCO than MongoDB or DynamoDB

Resilience



Every truck, everywhere, every event -- all of the time



- Smart Wifi Platform
- Powers millions of smarthomes
- Plume's customers are the world's largest ISPs including Comcast, Sky and Bell Canada

Low Latency



Each device creates hundreds of events which need to get persisted with low latency

Scalability



+27B ops/day & +35TB dataset. Projected 2020 growth: +75B ops/day & +85TB dataset

MultiCloud



Deployed on Cloud in Plume's VPC and partner VPCs

Geo Distribution

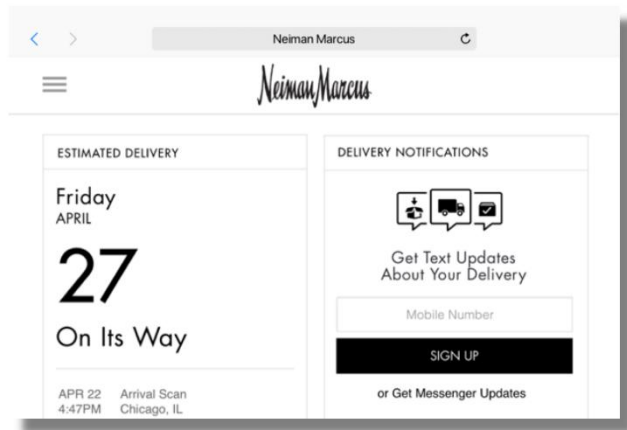


Multi-AZ, Multi-Region deployment. GDPR Compliance

Resilience



Every device, all over the world, all of the time



- Retail Experience Management
- Delivers personalized experiences for Gap, Neiman Marcus, Levis, etc.
- 10+ critical microservices on Yugabyte

Low Latency



<2ms read and <10ms write latency

Scalability



2B+ ops/day with huge peaks around Black Friday and Cyber Monday.

Geo Distribution



6 node, multiple-zone deployment. GDPR compliance requires data locality and multi-region capabilities.

Resilience



No service interruptions during spikes

TCO



Achieved 4x lower TCO than DynamoDB, PostgreSQL, and Elasticache



- Provides market data as APIs and microservices.
- Tick by tick and bid/ask data
- Customers include BlackRock, Charles Schwab, TIAA, and SoFi

Low Latency



< 10ms for batch writes & range queries

Scalability



10B ops per day; 60 TB dataset; handling 200K+ transactions / sec at peak

Geo Distribution

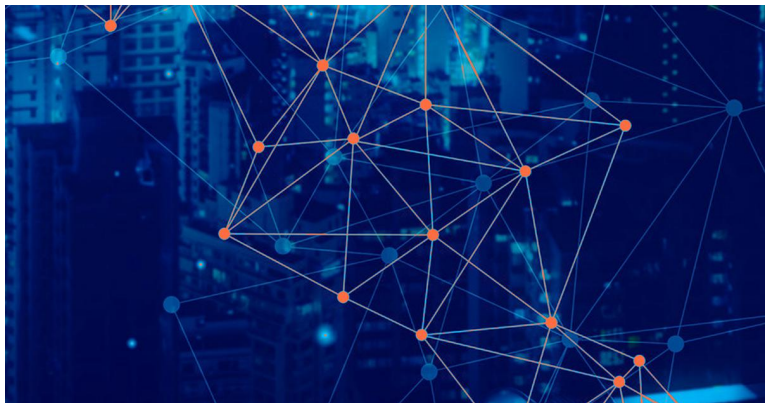


Multiple AZs, multiple regions

TCO



Achieved lower TCO and complexity by replacing Redis and Cloud Provider DB



- Business VOIP and SIP platform with Cloud PBX services
- Provides 24/7x365 network surveillance and monitoring
- an open-source rating engine used for carrier-grade, multi-tenant, real-time billing

Low Latency



Scalability



MultiCloud



Geo Distribution



Open Source



Telecommunications

Must handle CDR writes in real-time

10B ops per day, 50 TB dataset

2 Public Cloud and 1 DC sites

Multiple AZs, multiple regions

Cost per call must be kept low

Open source system that integrates with Hasura (GraphQL), Kafka, OpenSIPS, etc.