WHY VOLT ACTIVE DATA IS THE BEST DATA PLATFORM FOR BUSINESS SUPPORT SYSTEMS (BSS)

5G is here.

What are you compromising for the sake of scaling?

LATENCY? ACCURACY? BOTH?

Telcos need to adapt to 5G, but their legacy systems are buckling under the demand for network agility, new revenue streams, and better customer experience.

A tenfold increase in volumes combined with increasingly complicated use cases is rewriting the rules of the game. NoSQL systems, which many people counted on to replace legacy relational database technology, can scale but can't reliably provide accurate answers with predictable low latency. They also struggle when multiple devices try to use credit at once, leading to potential data loss.

Case in point: 5G is changing the rules of the game and significantly increasing the stakes.

After five years in the trenches with CSPs, mobile operators, and other types of companies in the telco space, trying to help them solve their toughest real-time data issues, here's what we now know:

1. If it doesn't run in containers, and on a generic cloud, and use no-name hardware, nobody will buy it. You can no longer 'pretend' your application is cloud-native, or promise it will be next year. You're expected to prove it up front.

2. Volumes will soon increase 10x.

3. Sub-10 millisecond latency is becoming a 'table stakes' requirement and a lot of our customers' applications now need to be even faster.

4. Due to new latency and redundancy requirements, telco space players are now demanding three or more live copies of their data in different geographic locations. This used to be science fiction. Then it was a stretched goal. Now it's a box on the RFP that needs to be ticked.

5. Data used to be "always stored, and sometimes processed". Now it's "always moving, always processed". Queueing technologies like Kafka help, but they aren't fast enough for real-time decisioning by themselves.

6. Without ACID compliance or immediate consistency, NoSQL technology is struggling with increasingly complicated applications.

7. Many of the VC-backed companies behind open source data platforms have changed their licences to force anyone who operates a private cloud to enter into a commercial relationship with them. This trend looks set to continue. "Free" may not be forever.

Is this an impossible situation?

Obviously not. But it's certainly asking very tough questions of telco tech stacks.

But that's why Volt Active Data is here—to enable 5G monetization.

With Volt Active Data, there are no compromises. And we have answers for every issue brought up on page 1:

1. THE NEED FOR CONTAINERS

Volt Active Data runs seamlessly in containerized, virtualized, or bare metal environments without any expectations for non-standard hardware.

2. INCREASING DATA VOLUMES

Volt Active Data is proven to work at millions of transactions per second and on clusters of 30 nodes or greater.

3. THE REQUIREMENT FOR SUB-10 MILLISECOND LATENCY

Volt Active Data does immediately consistent updates within 1-2 milliseconds.

4. THE NEED FOR REDUNDANCY

Volt Active Data supports both active-active and active-active-active deployment configurations.

5. THE NEED FOR REAL-TIME DECISIONING ON COMPLEX STREAMING DATA

Volt Active Data can now emulate a Kafka broker and can appear as both a source and destination while doing arbitrarily complex mappings and transformations under the covers.

6. THE NEED FOR ACID COMPLIANCE AND IMMEDIATE CONSISTENCY

Volt Active Data was designed from the ground up to have these features while still being scalable and performant.

7. OPEN SOURCE NO LONGER FREE

We're unashamed to admit that we make a living as a commercial vendor that develops deep, long-term relationships with our enterprise customers that end up saving them quite a lot of money in the long run.

Volt Active Data: Predictable low latency at scale without compromising on data accuracy

That's right: NO compromises.

We're the only data platform that can do this for BSS applications in the world of 5G. Take a look at what we did for Openet to see what we mean.

If you provide telco BSS systems and don't know who we are and what we do, it's time to get in touch.

ABOUT VOLT ACTIVE DATA

Volt Active Data enables enterprise-level companies to innovate faster, perform better, and create new revenue streams by unlocking the full value of their 5G data. The only data platform built for real-time, sub-10 millisecond decisioning, we empower companies to re-engineer their latency-dependent solutions to process more data than ever before at a faster pace than ever before, allowing them to not just survive but thrive in the world of 5G, IoT, and whatever comes next. By combining in-memory data storage with predictable low-latency and other key capabilities, we can power BSS/OSS, customer management, and revenue assurance applications that need to act in single-digit milliseconds to drive revenue or prevent revenue loss, without compromising on data accuracy. For more information, visit voltactivedata.com.