WHY VOLT ACTIVE DATA IS THE BEST DATA PLATFORM FOR INDUSTRIAL IoT

IoT is moving from being a source of entertainment to a generator of business value. While public attention mostly revolves around consumer IoT and hardware, the real complexity—and opportunity—of the sector lies in the command, control, and communications mechanisms that allow IoT devices to generate monetization opportunities in the *Industrial* IoT (IIoT) space.

Tapping into these new business opportunities while avoiding revenue loss or theft is a significant but very under-addressed challenge. Successful implementation of any machine-to-machine communication system or massive machine-type communications system requires bringing intelligence to edge connectivity, which requires a small database footprint via a simplified stack.

This involves reliably correlating multiple streams of telemetry data and applying intelligent decision-making to drive control and orchestration actions that meet low-latency SLAs. Late or suboptimal decisions have measurable consequences that directly impact ROI. And now with 5G here, both the consequences and the opportunities around low-latency divisions are highly exacerbated.

Here's why Volt Active Data is the best data platform for IIoT use cases:

1. IIoT-PROVEN

Volt Active Data has a proven track record in the national infrastructure space in Japan and Europe with multiple live deployments over the last decade. Our involvement with groundbreaking international smart meter projects has required us to provide solutions for a whole set of issues and problems that will be universal regardless of the IIoT use case.

2. INTELLIGENT QUEUEING AT SCALE

Our data platform can manage disparate IoT devices at a massive scale with precision and high availability, to enable intelligent, precise responses to events captured from the message queue. This 'intelligent queue' of inbound and outbound messages can also handle security, encryption, authentication, translation, and capacity management, all of which are required for mass-scale IIoT deployments.

3. ULTRA-RELIABLE LOW LATENCY

5G, combined with IoT and machine-to-machine communication, is making life almost impossible for legacy tech. To meet the SLAs of 5G, especially for BSS- and customer management-related use cases, your applications need to be able to go from ingest to decision in under 200 milliseconds, which means the decisioning part needs to happen in under 10 milliseconds, without compromising on data accuracy. Volt Active Data is the only data platform that can do this.

4. ACID COMPLIANCE

Our platform provides ACID-compliant transactions to process data and make complex decisions in a consistent manner. ACID compliance is key for consistency. If 5G and IoT are making everything faster, it becomes that much more important—and that much harder—to ensure consistency without sacrificing something else, like speed or data platform performance. Most NoSQL-based data platforms will fail in one or more of the ACID requirements, and thus fail to meet the data consistency requirements of many if not most of today's enterprise applications.

5. INTELLIGENT, REAL-TIME AGGREGATIONS

At the heart of any powerful IIoT application is an ability to make complex decisions using both historical and near-recent records to attain a nuanced understanding of an event and act on it in the best way possible, according to your unique business needs and KPIs. Most data platforms—especially those using legacy or NoSQL database technology—focus on either historical data or recent data, without aggregating them for a holistic view.

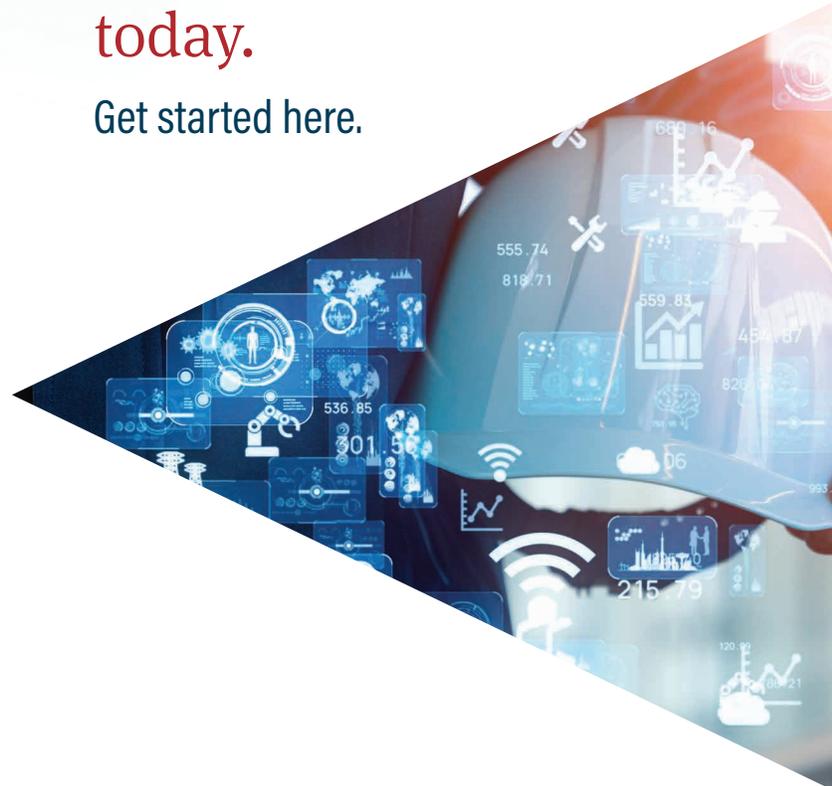## 6. SIMPLIFIED, EDGE-READY INFRASTRUCTURE

The Volt Active Data Platform provides stack simplification to reduce costs and improve data processing performance through a simplified infrastructure with fewer layers. Every layer in a stack adds latency. Adding more layers worked well to address all types of data ingestion and analysis issues until 5G and IoT came along and applications could no longer afford to

take their time on mission-critical decisions. The less layers you have, the less latency you are introducing to your stack. Volt Active Data allows you to simplify your stack to manage ingest-to-action in under 200 milliseconds.

The Volt Active Data Data platform is the only data platform that can manage enterprise-grade IIoT deployments at scale without compromising on latency or data accuracy. We can ensure that your IIoT applications, and your customers' IIoT applications, will always stay online and will always be able to act on real-time data while maintaining consistency.

Get started with Volt Active Data today.

Get started here.

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.