



*Last updated
September 2024*

MongoDB + Ably

Reference architecture guide



*Real-time data synchronization
and streaming for web, mobile,
and IoT environments*

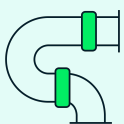
Ably is a real-time data synchronization platform for your enterprise apps. It enables seamless data streaming and synchronization across devices without relying on traditional network infrastructure. Power mission-critical services, deliver real-time updates, and keep operations running smoothly, even in low-latency environments.



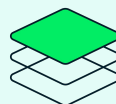
Ably delivers real-time data synchronization with low-latency messaging, leveraging multi-language SDKs for easy integration with MongoDB



Ably provides native support for low-bandwidth environments, ensuring that real-time data can be synchronized even in challenging network conditions



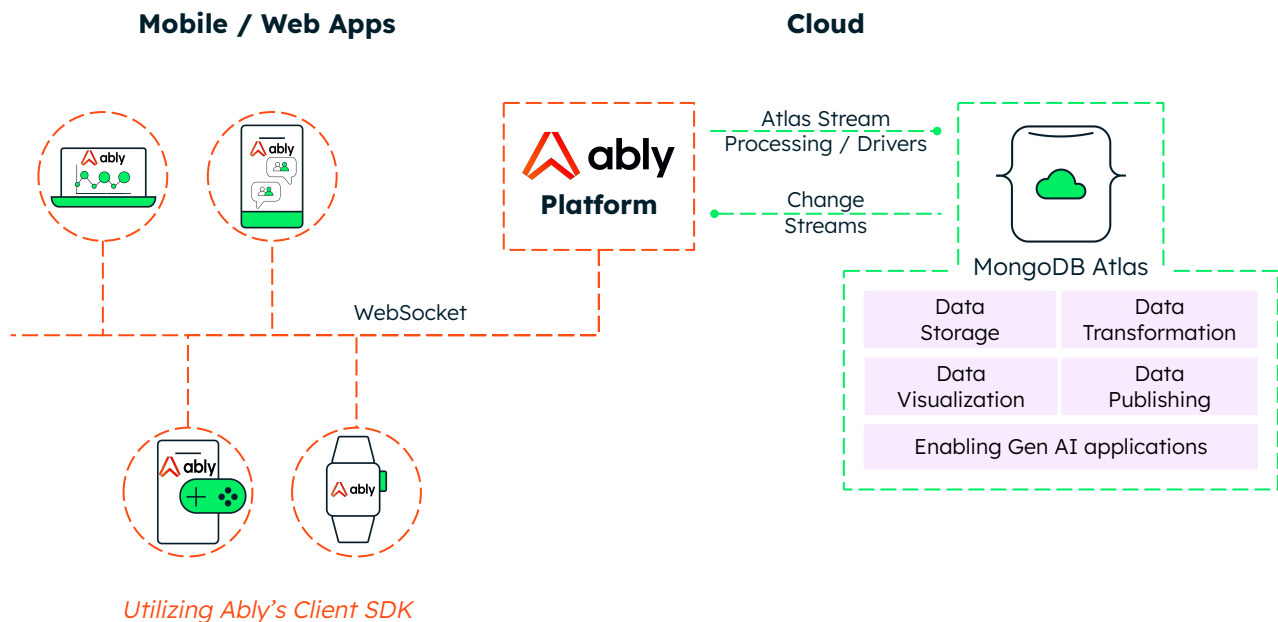
Securely stream real-time data to a trusted ACID-compliant database, MongoDB Atlas, for advanced data aggregation and real-time analytics



MongoDB's modern, multi-cloud database includes services like Time Series, Search, and Atlas SQL, enabling advanced analytics and real-time insights for your application

Reference Architecture

Real-time data synchronization with Ably and MongoDB



Use Cases

Live Chat

Deliver reliable, real-time messaging for chat applications, ensuring seamless communication between users with minimal latency

Multiplayer Collaboration

Enable real-time, interactive multiplayer experiences, allowing users to collaborate with synchronized states across devices

Data Broadcasting

Broadcast live updates, such as sports scores or financial data, to millions of users simultaneously, with minimal delay

“

Users aren't typically too forgiving if they're not able to get the data they signed on to get, they're going to leave immediately..... We had to make sure that we were ready to handle a sudden influx of visitors, instantaneously. Ably takes away this headache and allows us to scale quickly enough to meet demand.

”

— Chad Larter,
Sr. Dir., Technical Operations, NASCAR