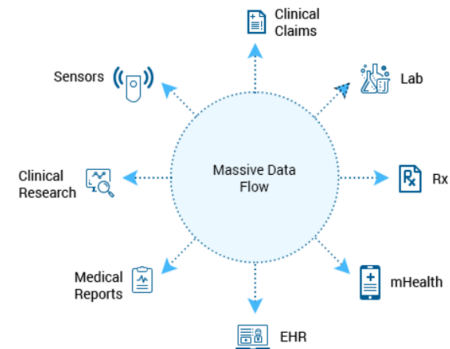![mongoDB®]

FHIR API for MongoDB

Exafluence, a MongoDB Global Strategic Partner, recognizes how APIs can transform Healthcare. Our partnership simplifies digital transformation by offering modernization accelerators using MongoDB Atlas.
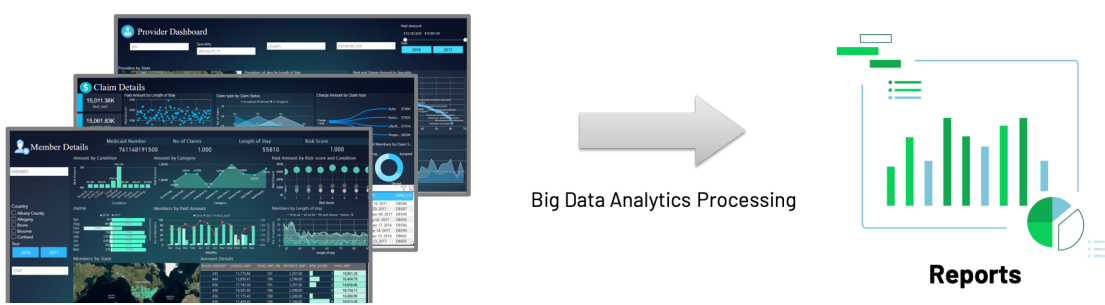
Interoperability and regulations to prevent information blocking are in place thanks to the 21st Century Cures Act of 2016 (Cures Act). The mandatory adoption of Fast Healthcare Interoperability Resources (FHIR), based upon the international standard developed by the HL7 organization, has been driving significant changes across the industry. Now, data formats, elements and APIs that exchange electronic health information are a reality.

Ready to innovate your Healthcare Analytics?

Enable effective management and decision making by means of robust reporting with Aggregates Provider, Membership, Claims, Pharma and R&D data, EHR clinical data, and more. Get unparalleled visibility into Members, Claims, and Provider data for day-to-day operations as well as to generate fresh insights. Exafluence and MongoDB can help your organization:

- Transform health care data from its raw form into reports for actionable insights
- Provide reports on Claims, Membership and Providers for identifying trends and analyzing patterns
- Easily access, visualize and analyze health care data from different sources
- Enable users to keep track of provider performance and identify operational inefficiencies
- Obtain actionable insights to improve member care quality, health outcome and satisfaction

Big Data Analytics Processing
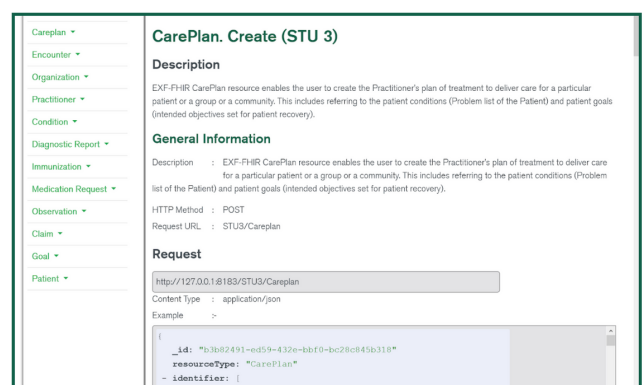
Reports

Why use MongoDB as your Database for FHIR?

- MongoDB is a JSON document database—FHIR API follows JSON and HL-7; there's no need to convert your data to use FHIR
- Electronic health record interoperability—We've created an all-MongoDB FHIR API accelerator to use with custom field support so our customers can easily achieve interoperability
- Ready to Use—Quickly integrate with your applications and leading Healthcare systems like Epic, Cerner Health and Allscripts
- Local or any cloud deployment—MongoDB FHIR API supports local or any cloud deployment using MongoDB Enterprise or Atlas
- Deploy both batch and real time—With MongoDB and our partner, Exafluence, you can deploy both batch and real-time event-driven FHIR integration via Kafka
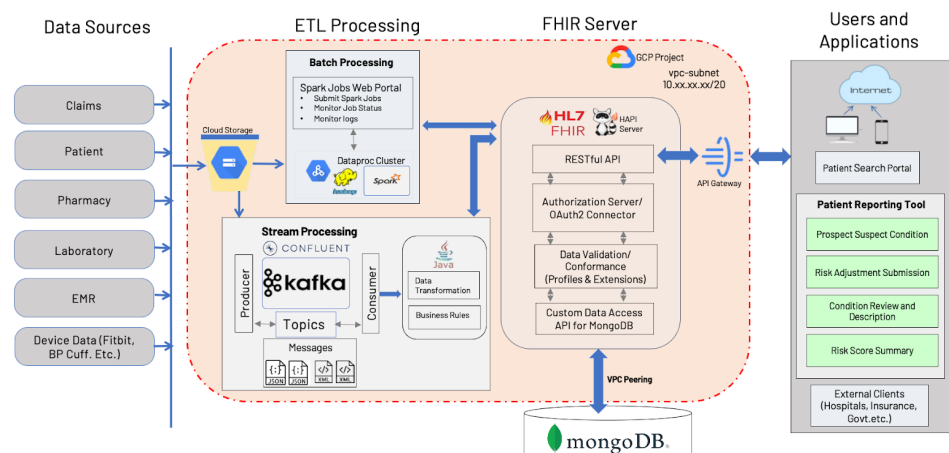
FHIR Today, Real-Time Healthcare Tomorrow

MongoDB and Exafluence have built an FHIR API capability using Confluent Kafka and Spark for local and any Cloud deployment. Our FHIR support includes the ability to use your custom field attributes and is able to use second tier and cloud object stores. We believe that real-time, event-driven Healthcare will evolve quickly as FHIR is embraced. Examples include a positive COVID-19 test of a hospital employee, IoT Device alerts and real-time updates available to all systems. Whether locally installed or in the cloud on MongoDB Atlas, customers will be able to develop the next generation of healthcare applications.

APIs are provided for 12 Resource types and it's possible to include custom attributes for your organization

FHIR Processing Architecture

Better Data Integration — it's what MongoDB Offers

- Existing Integration Points - FHIR makes integrations of legacy or cloud native capabilities in development more streamlined, with reduced cost and improved efficiencies
- No need to reconcile different versions of the same JSON format data— this dramatically simplifies systems architecture and time-to-market
- Resilient, lower-cost infrastructure—With MongoDB, resilient, real-time healthcare interoperability is possible today

About Exafluence

Exafluence is a global strategic MongoDB partner focused on Healthcare and Modernization. With MongoDB and Exafluence, adoption of FHIR's interoperability is quick and easy. FHIR speeds access to data to enable Healthcare Analytics. Exafluence brings its proven, live accelerators as Docker Containers able to run on Kubernetes Clusters to speed your project.