



# Couchbase Healthcare Solution Brief

## IS YOUR HEALTHCARE ORGANIZATION STRUGGLING WITH THE FOLLOWING QUESTIONS:

- How do you virtualize the patient experience?
- How does mobile technology help you increase your impact?
- How do you provide care when network connectivity is not guaranteed?



“COUCHBASE HAS ENABLED OUR TEAM TO BUILD A CUTTING-EDGE DIGITAL HEALTH SOLUTION TO LOWER THE BURDEN OF ILLNESS AND IMPROVE OUTCOMES. WITH COUCHBASE, WE’RE ABLE TO RADICALLY CHANGE THE TRADITIONAL DOCTOR/ PATIENT RELATIONSHIP.”

—DYLAN WILSON, ASSOCIATE DIRECTOR, SOFTWARE ENGINEERING, BD

Private and Government healthcare organizations around the world have answered these questions with cutting-edge healthcare solutions that run on Couchbase. Our enterprise-class, multicloud to edge NoSQL database combines the best of NoSQL with the power and familiarity of SQL to provide the flexibility and scalability required to support a seamless user experience at every patient/doctor touchpoint.

## Healthcare solutions you can deploy with a NoSQL data model

- Provide a single data platform that can deliver relevant and simplified experiences for patients and clinicians at every touchpoint and every connected device
- Give patients the ability to access healthcare information more easily and conveniently
- Empower clinicians to provide services and drive revenue in places and ways not possible before
- Power connected devices at the edge and in the cloud
- Give providers the control to manage data throughout the network by sharing data across systems and bridging clinical and non-clinical systems
- Ensure HIPAA compliance with built-in enterprise-level security throughout the entire platform
- Reduce cost of operations and improve member/patient retention
- Scale elastically and seamlessly based on your connected health demands



## SUCCESS STORIES



Becton Dickinson, a Fortune 500 company, collects real-time medical, activity, and location data of diabetic patients through devices like insulin shots and mobile phones. With Couchbase as the underlying technology, BD enables patients to share all of this data with their doctors, allowing clinicians to provide real-time diagnostics and care. Couchbase provides the offline capabilities and secure synchronization of patient data from these medical IoT devices to the cloud.



Everyday Health powers the Mayo Clinic diet and fitness app for tracking user activity logs, including eating habits, weight loss, and exercise activities. Everyday Health relies on Couchbase for full data storage across mobile devices and in the cloud, while mobile offline capabilities are a critical component for users who may not always be connected to a network.



**Cochlear**

Cochlear designs and manufactures hearing implants, using Couchbase to store each user's custom profile, which is used to tune the implants for optimal hearing. Couchbase syncs user data across devices so users can access their profiles at home or on the go and doctors can provide real-time profile analysis and diagnoses regardless of the location of their patients.

## What Couchbase customers have built for their healthcare organizations



Health activity logging and tracking apps



Internet of Medical Things (wearable tracking devices, insulin shots, and more)



Digitization, management, and analysis of electronic health and medical records



Interoperability between medical centers



On-demand and proactive patient care (digital appointment management, health portals, and more)

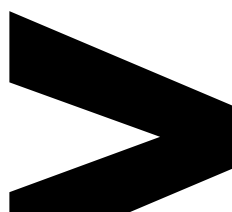


Track and trace (monitoring counterfeit drugs entering the supply chain)



Public health organization, AEDES, developed a tactile hospital information system that brings digital services to small hospitals in sub-Saharan Africa, which has some of the most challenging environments for healthcare information management. Starting in the Democratic Republic of Congo, they faced extreme data issues: hospitals were still run on paper records, data was unreliable, and records were often unattainable. This made tracking and treating highly contagious diseases like Ebola very difficult. AEDES was able to digitize patient records using Couchbase on Android-based Samsung tablets.

A Couchbase database now collects and stores administrative, medical, and patient data in one place and replicates the data on local databases so users can access services offline and doctors can scale up, down, and horizontally quickly and easily.





Modern customer experiences need a flexible database platform that can power applications spanning from cloud to edge and everything in between. Couchbase's mission is to simplify how developers and architects develop, deploy and consume modern applications wherever they are. We have reimagined the database with our fast, flexible and affordable cloud database platform Capella, allowing organizations to quickly build applications that deliver premium experiences to their customers—all with best-in-class price performance. More than 30% of the Fortune 100 trust Couchbase to power their modern applications.

For more information, visit [www.couchbase.com](http://www.couchbase.com) and follow us on Twitter.

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