

Philips Healthcare accelerates development up to 4x with Hasura





Philips Healthcare creates innovative products and services that improve the lives of staff and patients around the world. Their Radiology Operations Command Centre project is a response to the need for optimized radiology services, high quality imaging, better diagnostics and improved patient care. Read on to discover how Hasura helped bring this project to life, fast.

Better healthcare, enabled by technology

Philips Healthcare is part of the Fortune 500 company Philips, and is dedicated to advancing healthcare by connecting people, technology and data. Their healthcare innovations increase hospital patient and staff satisfaction while decreasing inefficiencies.

The company considers how technology can improve the lives of consumers, patients, providers and caregivers across the health continuum – from healthy living and prevention to diagnosis, treatment and home care. Philips Healthcare's innovative solutions enable better care at lower cost.

Hasura's Impact

-  50% reduction in team size per project.
-  Commercial release in under 1 year.
-  2-4x faster development.
-  Devs are freed up from back-end and database work.

Addressing challenges in radiology operations

After researching the needs of hospital-based radiology departments, Philips Healthcare conceptualized its Radiology Operations Command Centre. This flexible, customizable Platform as a Service optimizes operations, increases efficiency, and improves patient care.

The challenges it addresses include:

- ▶ Minimizing scanning errors, to reduce patient re-exposure.
- ▶ High quality scanning and imaging access for accurate diagnostics.
- ▶ Enabling consistent adherence to standardized protocols.
- ▶ Remote supervision and support.
- ▶ Optimal allocation and scheduling of imaging resources.
- ▶ An open but secure API to let developers create value-added services.

The big challenge would be to adapt the existing information model to improve all parts of the ecosystem – while complying with the industry's strict regulatory requirements.

Why Philips Healthcare chose Hasura

When setting up the central data access infrastructure for the platform, Philips Healthcare had to consider the operational context, tech stack, available internal skills, time to market, regulatory requirements, scalability and cost.

The team quickly settled on GraphQL and initially considered developing their own GraphQL APIs from scratch, but decided against this due to a lack of in-house expertise.

Instead, Philips Healthcare chose Hasura because:

- ▶ Hasura has extensive support for Postgres.
- ▶ Hasura would plug-and-play with their existing on-premises database.
- ▶ Getting started is extremely easy.
- ▶ Hasura offered excellent performance.
- ▶ For most use cases, there's no need to write and maintain back-end code.



If we had gone the traditional way this process would have taken us 2-4 years. With Hasura we have been able to crunch it to just under a year. Achieving this timeframe in a highly regulated environment like healthcare is phenomenal

- Karthik Srinivasan, Solution Architect,
Philips Healthcare

Results achieved

Bringing Hasura on board for their GraphQL implementation has helped Philips Healthcare achieve milestones impressively fast:

- ▶ **2-3 months** to concept validation with a lean team.
- ▶ **6 months** to pilot launch and pre-market evaluation.
- ▶ **< 12 months** to commercial release.

Philips Healthcare is now able to:

- ▶ Integrate external data from radiology workflow events, recommendations, serviceability events and partner ecosystems.
- ▶ Provide simplified, app-specific schemes for front-end apps.
- ▶ Manage and monitor everything via the Hasura Pro Management Console.
- ▶ Support flexible authorization models for different data access use cases.
- ▶ Link custom authorization models to the Philips Authorization Server.
- ▶ Consolidate all domain data, transactional data and analytics into a central information hub.
- ▶ Allow developers to build client applications easily.
- ▶ Scale to handle large user bases and data volumes.

Future plans

Philips Healthcare is currently working with Hasura to baseline and scale up their GraphQL performance. They're also planning to use Hasura to boost dev team productivity and feature velocity across other business lines.

About Hasura.io

Hasura makes developers superhuman and simplifies app development with its open-source, real-time GraphQL API engine to instantly create reusable, GraphQL and REST APIs from your new and existing data. Power modern apps and complex data integrations while radically reducing your development time by using a unified interface in the cloud or on-prem. Hasura provides the tools, scale, and granular security to power the most mission-critical workloads. Learn more by visiting <https://hasura.io>