

 **CitiusTech** | Case Study

HEALTHCARE
LIMITLESS

Successfully Migrated the ECG Management Solution to AWS for a Leading Provider of Medical Imaging and Medical Equipment Solutions





Client Requirement

This leading provider of medical imaging and medical equipment solutions has a critical care business with a suite of ECG devices and a thick client ECG management solution.

The client's objective was to migrate their ECG management solution from on-premise to a public cloud, and to establish connectivity between ECG devices and their cloud-based ECG management solution.

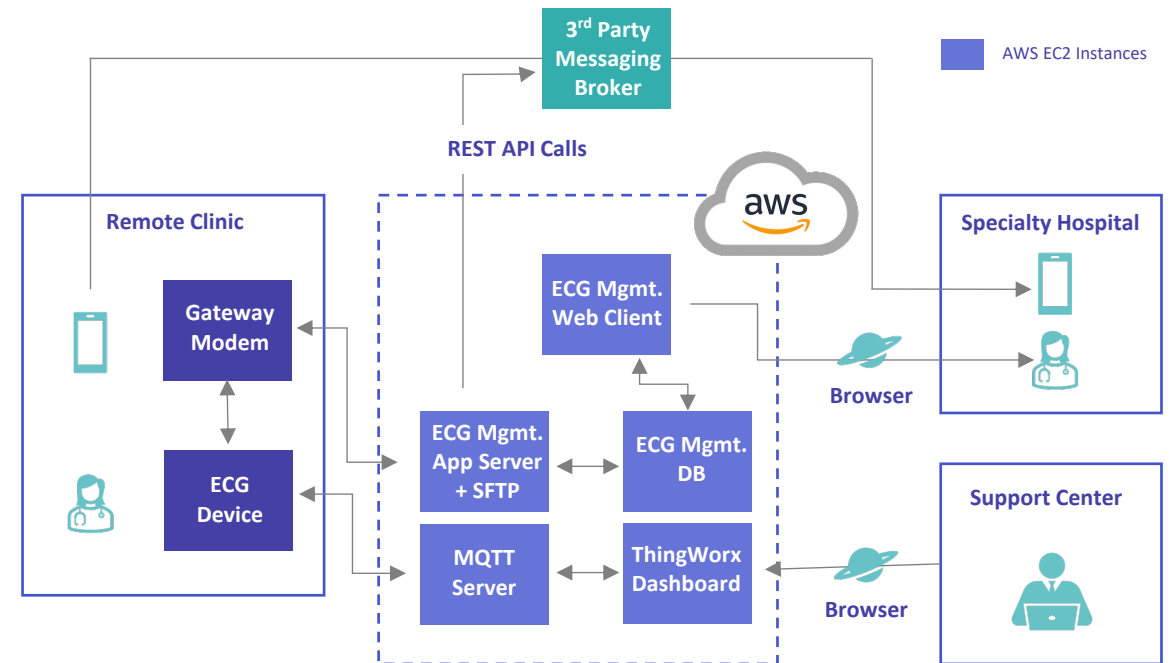
CitiusTech was chosen due to proven expertise in cloud migration for healthcare solutions and device connectivity.

CitiusTech Services:

- Conducted feasibility analysis on migration of client's application to AWS cloud, and its connectivity with legacy ECG devices.
- Migrated a thick-client ECG management solution to AWS in a three-tiered architecture (DB server, web server, application server).
- Established a secure data pipeline using HTTPS, between ECG device and cloud solution to send ECG files, using AWS SQS and AWS Lambda.
- Built remote servicing capabilities using MQTT protocol and ThingWorx solution, which was hosted on AWS.
- Built a cloud-based analytics dashboard to capture operational metrics.
- Built a SMS notification feature into ECG management solution using a third-party messaging broker.

Value Delivered:

- Helped establish connectivity between ECG devices in remote areas and cardiologists in specialty hospitals.
- Significantly reduced service engineer effort to perform maintenance on ECG devices.
- Eliminated the need for on-site maintenance visits.





CitiusTech

Our vision is to inspire new possibilities for the health ecosystem with technology and human ingenuity. At CitiusTech, we constantly strive to solve the industry's greatest challenges with technology, creativity, and agility. Together with the world's leading Healthcare and Lifesciences organizations and our partners, we aim to accelerate the transition to a human-first, sustainable, and digital healthcare ecosystem.

Get in touch
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