

# Successfully migrated the ECG management solution to AWS for a leading Provider of medical imaging and medical equipment solutions

## Business Challenge

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.

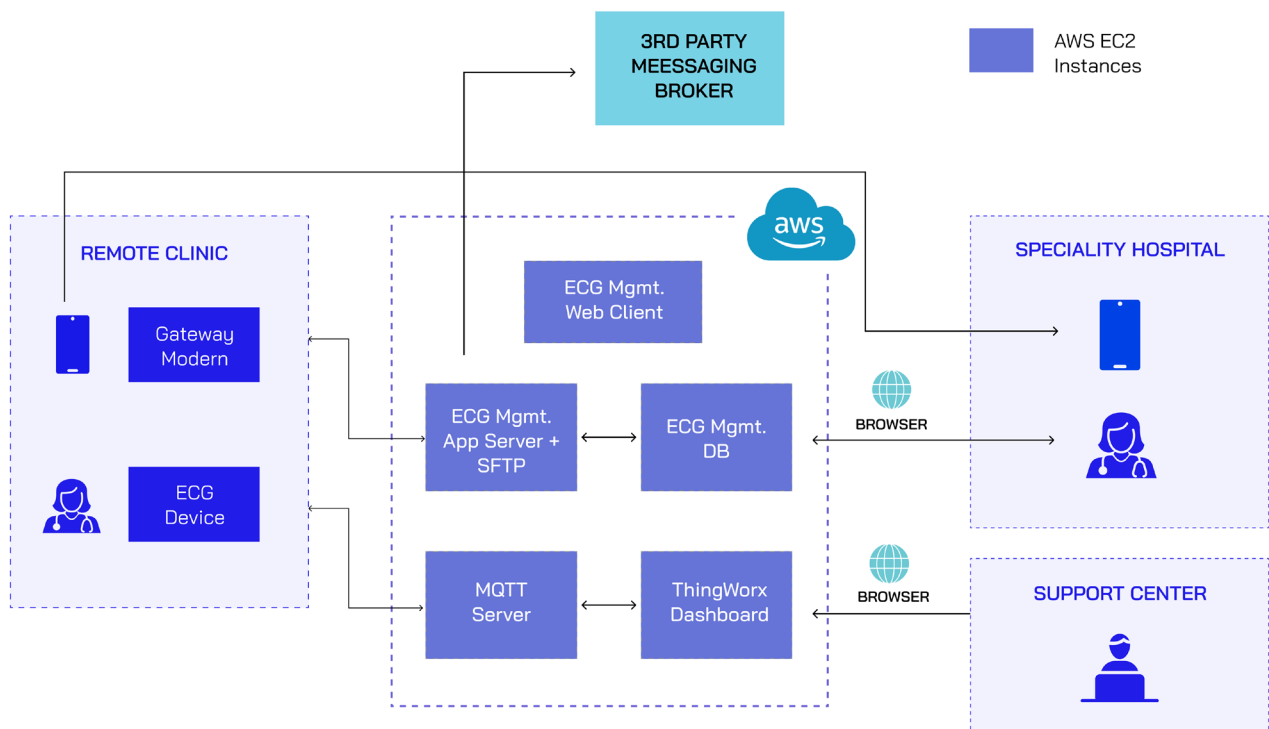


aws

## CITIUSTECH SOLUTIONS

- 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.

## SOLUTION SCHEMATIC



**VALUE  
DELIVERED**

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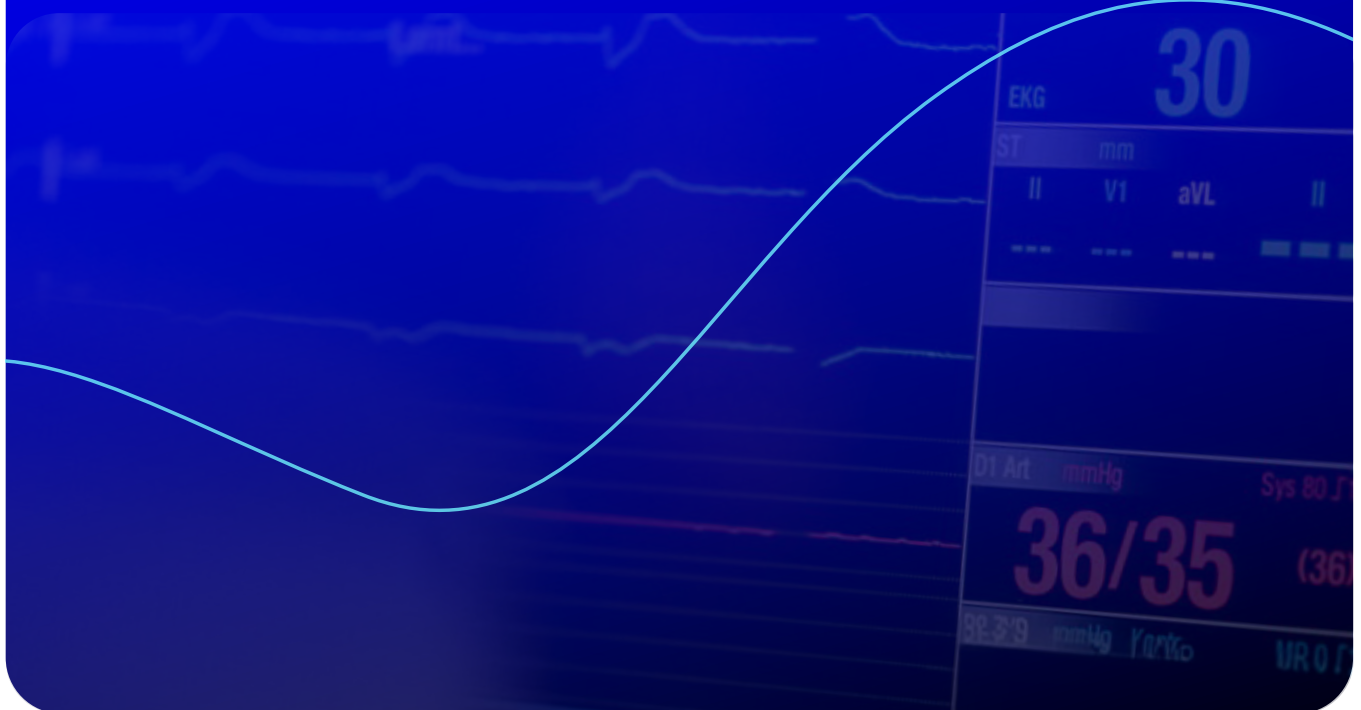
Helped establish connectivity between ECG devices in remote areas and cardiologists in specialty hospitals.



Significantly reduced service engineer effort to perform maintenance on ECG devices.



Eliminated the need for on-site maintenance visits.





Shaping Healthcare Possibilities

CitiusTech is a global IT services, consulting, and business solutions enterprise 100% focused on the healthcare and life sciences industry. We enable 140+ enterprises to build a human-first ecosystem that is efficient, effective, and equitable with deep domain expertise and next-gen technology.

With over 8,500 healthcare technology professionals worldwide, CitiusTech powers healthcare digital innovation, business transformation and industry-wide convergence through next-generation technologies, solutions, and products.

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