

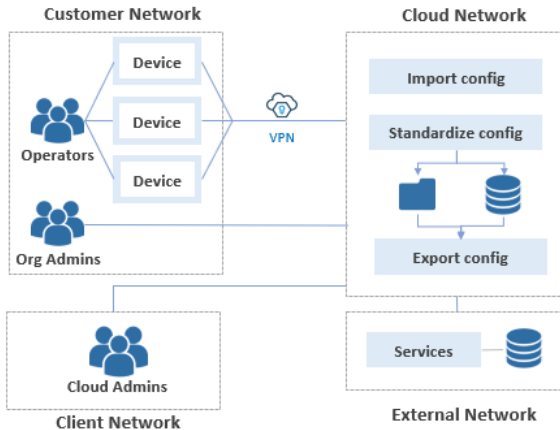
# Case Study: Protocol Management Solution on AWS Cloud

## Client Requirements

Client is one of the largest provider of medical imaging systems and wanted to build a cloud-hosted, multi-modality protocol management solution that could identify protocol variations, standardize imaging workflows, and improve protocol compliance.

They wanted to achieve three goals primarily – enhance patient safety, improve operational efficiency, and optimize patient experience.

CitiusTech was selected to develop the platform due to its robust expertise in medical imaging and Cloud technologies.



Solution Schematic

## CitiusTech Services:

- Architected a high throughput, low latency application based on serverless architecture
- Created thorough architecture and UX design of Protocol Management System
- Enabled Import/ Export workflows for various modalities such as CT, MR, X-Ray
- Developed UI in Angular 6 and spring boot backend services for protocol management
- Provided secure cloud connectivity and Integration with legacy devices

## Value Delivered:

- One cloud solution for protocol helped customer to enhance the capability of devices like CT,MR, X-ray etc.
- Achieved scalability, durability and availability at lower cost with the help of Function-as-a-Service (FaaS) provided by AWS
- Achieved consistency in care quality by standardizing workflows
- Achieved a revenue increase of \$54K per device/ year from increased utilization & reduced downtime
- Increased the radiologist productivity by \$50K/ year