

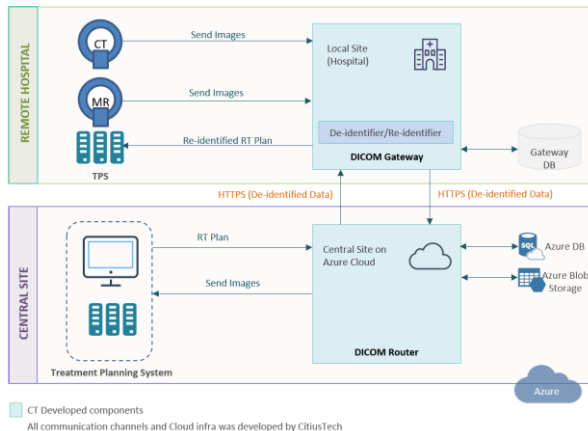
Case Study: Oncology Treatment Planning as a Service

Client Requirements

Client is a leading provider of oncology treatment devices and software and holds an OIS setup at various radiation oncology clinics.

To lower infrastructure/staffing costs at local clinics, a Centralized Treatment Planning System and an automated workflow were needed, thereby offering Treatment Planning as a Service.

CitiusTech was selected to design the architecture and build a Centralized Treatment Planning solution.



Solution Schematic

CitiusTech Services:

- Designed the architecture and UX design of the Centralized Treatment Planning System
- Developed an intuitive UI solution for Oncologist to create a treatment plan directive
- Built de-identifier / re-identifier module to mask/unmask DICOM PHI data to ensure no PHI data is exchanged between remote hospital sites and centralized system
- Designed Azure cloud infrastructure for centralized system deployment
- Orchestrated CI/CD pipeline for deploying services on Azure app and cloud service
- Integrated the client's billing systems and AI applications

Value Delivered:

- Leveraged CitiusTech's expertise in UX design, Azure cloud, DICOM, and oncology domain for accelerated development
- Detailed product requirement documentation, product UX design, and enhanced user experience
- Delivered highly available solution covering the security aspects of data in transit as well as at rest