

A smiling male doctor with dark hair and glasses, wearing a white lab coat over a blue and white striped shirt. He has a stethoscope around his neck and is holding a clipboard. The background is a blurred clinical setting with medical equipment.

A Case Study

Enhancing Cardiac Care at Good Health CPS Guelph Cardiac Clinic with ECHO PACS

- Specialised ECHO Viewer that supports offline measurements.
- Custom interface that interprets measurements in DICOM format and translate them in HI7 messages.
- Cloud based multi centric ECHO PACS solution that integrates with EMR.

Background

Good Health CPS Guelph Cardiac Clinic is a newly established cardiac diagnostic facility located in the heart of Guelph. This clinic combines the expertise of K-W Cardio Pulmonary Services, an independent and accredited health facility serving Kitchener and Waterloo since 1988, with the Good Health Cardiac Clinic group's focus on providing a patient-centric, digitally oriented approach. Their mission is to expand access to essential cardiac diagnostic services across Ontario and beyond.

Challenge

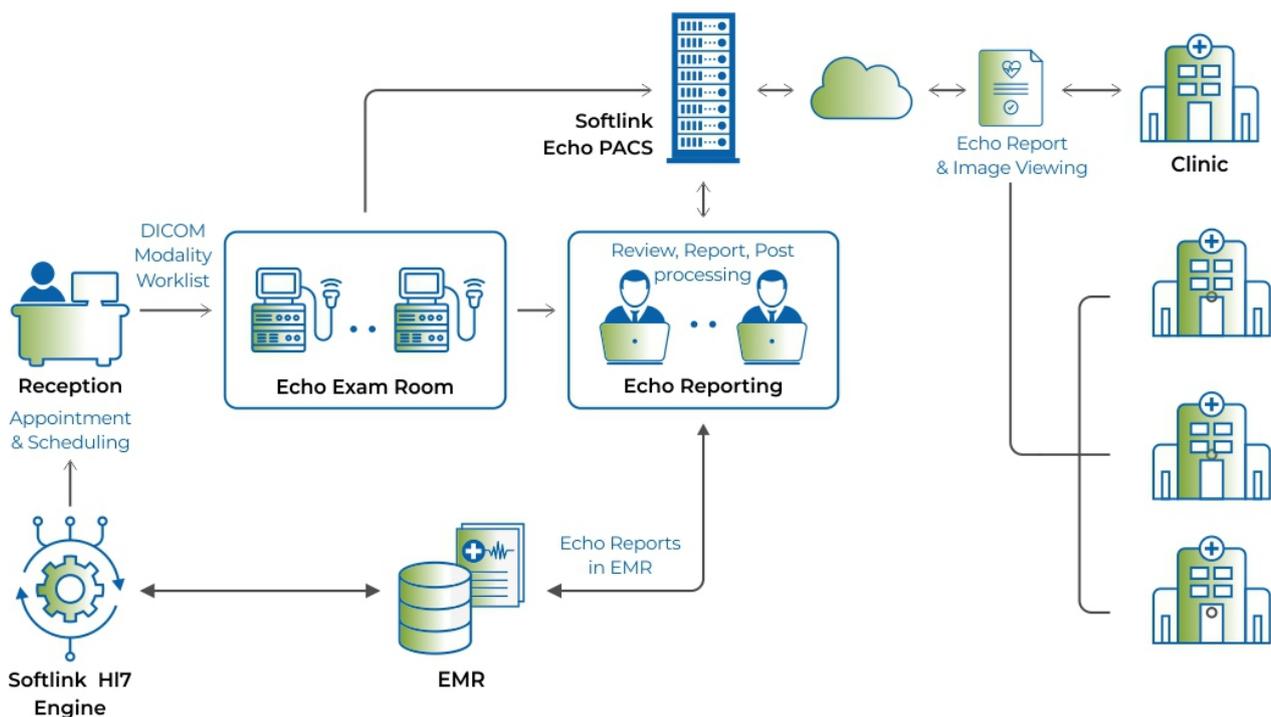
One of the primary requirements for Good Health was the development of a specialized ECHO viewer capable of enabling offline ECHO measurements while also assisting healthcare providers in interpreting and comparing ECHO measurements obtained from ECHO carts. Furthermore, seamless integration of the ECHO PACS (Picture Archiving and Communication System) with their selected EMR system was crucial. This integration would facilitate the feeding of both ECHO cart measurements and offline measurements into the EMR for efficient reporting. Such functionality is vital for effective cardiac imaging data management, quick access to patient records, and promoting collaborative decision-making among healthcare providers.

Solution

As a leading imaging solution provider, SoftLink International collaborated closely with Good Health CPS Guelph Cardiac Clinic and their EMR partner from the project's inception. Below are the steps taken by SoftLink to help Good Health overcome their challenges and achieve their goals:

Needs Assessment: Conducted a comprehensive assessment of the clinic's requirements, taking into account their workflow, imaging data volume, regulatory compliance needs, and integration preferences.

Custom Integration: Leveraging our expertise in Echo PACS solutions, SoftLink developed a customized system that interprets measurements from the ECHO cart in DICOM format and converts them into HL7 messages that can be easily read by the EMR solution provider. Additionally, SoftLink implemented a cloud-based PACS featuring a specialized ECHO viewer, which allows for offline measurements. The integration between SoftLink PACS and the EMR facilitates bidirectional data flow, ensuring that patient information, measurements, and imaging data are synchronized seamlessly.



Workflow Optimization: Optimized the workflow within the Echo PACS system to align with the clinic's operational processes, enhancing overall efficiency.

Training and Support: Provided comprehensive training to the clinic's staff on effectively using the integrated PACS-EMR solution. Ongoing support ensured smooth operations and rapid resolution of any technical issues or challenges encountered during implementation.

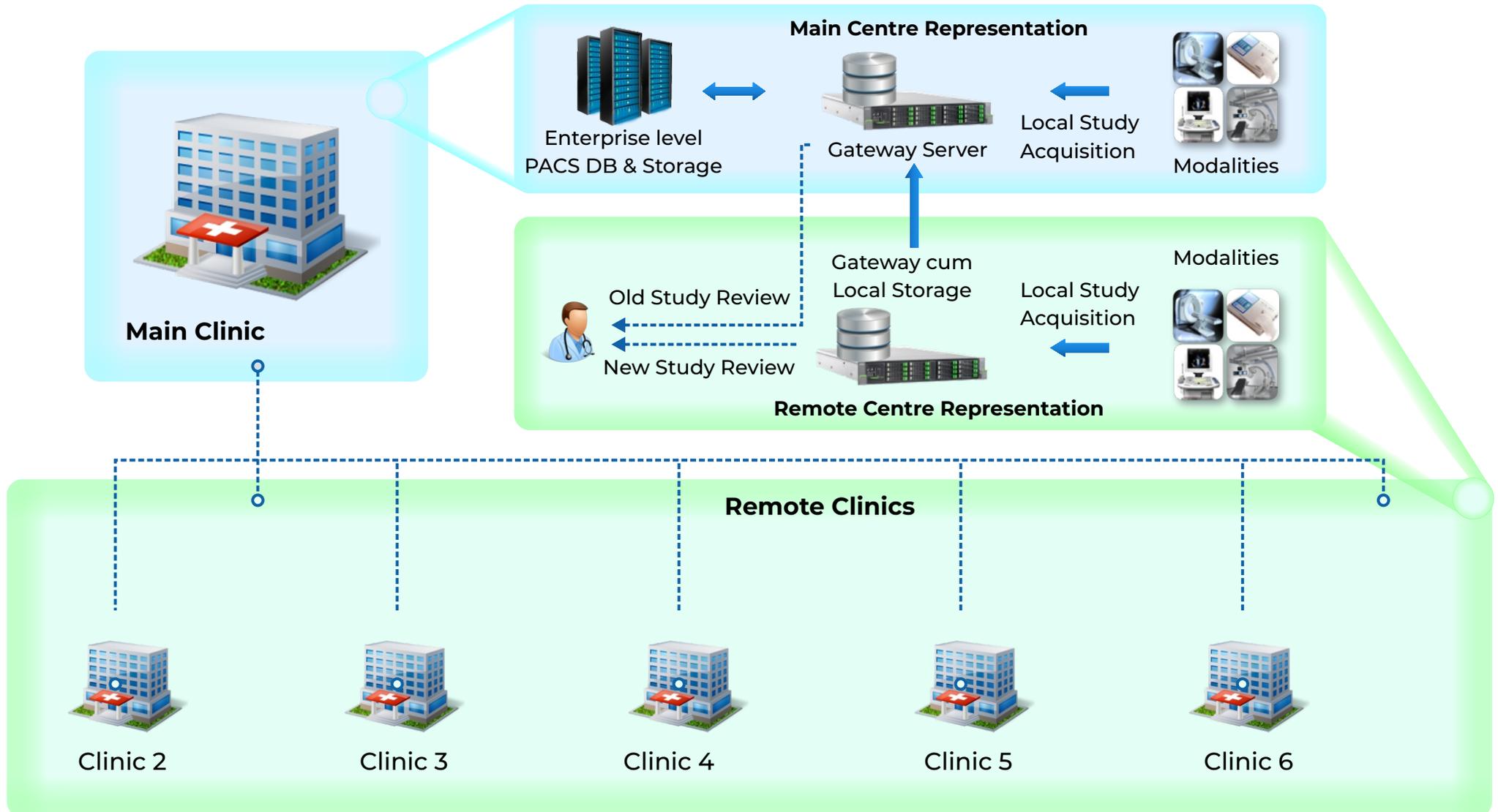
Performance Monitoring and Enhancement: Post-implementation, Softlink continuously monitored the integrated system's performance and collaborated with the clinic to implement necessary enhancements and updates. This proactive approach ensured that the solution remained robust, efficient, and aligned with evolving needs and healthcare standards.

Results

The collaboration between Good Health CPS Guelph Cardiac Clinic, their EMR partner, and Echo PACS software solution resulted in significant improvements:

- **Enhanced Efficiency:** Integration of Echo PACS with EMR streamlined data management, reducing manual errors and duplication of efforts.
- **Improved Patient Care:** Healthcare providers gained quick access to comprehensive patient records, leading to more informed decision-making and personalized care.
- **Cost Savings:** Automated workflows and streamlined operations resulted in cost savings for the clinic by reducing administrative overheads and optimizing resource utilization.
- **Compliance:** The integrated solution ensured adherence to regulatory requirements concerning data privacy, security, and interoperability.

Multi centric ECHO PACS solution deployment at Good Health CPS Guelph Cardiac Clinic



About Softlink International

SoftLink International is a technologically acclaimed company based in India and USA with global presence. Founded in 1997, Softlink enjoys technology partnerships with leading companies in healthcare and IT. In more than two decades of Product innovation and R&D, it has garnered a large customer base of healthcare institutions in 15 countries.

SoftLink focuses on three key areas of Healthcare Automation, Image Management and EMR by providing software products and turnkey solutions.

- Healthcare Automation
- Image Management
- Electronic Medical Records

