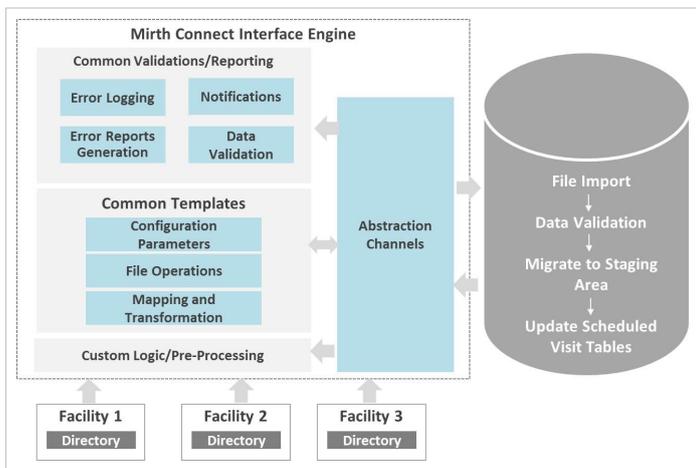


Case Study: Interface Development for Abstraction Scheduling

Client Requirements

The client is a leading provider of health information management solutions for hospitals and integrated delivery networks. The client provides pre-load clinical data abstraction services that include abstracting scheduled appointments. A daily batch file for multiple clients is received to update patient's appointment details into the backend system at a given schedule.

CitiusTech was selected to implement an interface between hospitals/ IDNs and client backend system. This required interfacing with the existing solution in the backend using the Mirth Interface Engine. The operations of file validation, transformation, error notifications and logging were to be taken care of while retaining the backend logic.



CitiusTech Solution

Requirement Analysis

The solution required implementation for 34 interfaces and it needed to be scalable. Each client had a different file format with effectively the same fields that needed to be processed in the EMR database.

To avoid rework each time a new client was to be added, code templates and transformation to common file format was used. Database operations were used to validate and persist file information as a staging area to improve performance

Solution Design

CitiusTech provided a dedicated team of interoperability experts to the client to implement the interfaces. The solution included:

- Interface set-up between hospitals/ clinics (EMRs) to client backend for loading scheduled appointments
- Validation rules/ reporting/ notifications e.g. validating mandatory fields and generating error reports for invalid records
- Common components for loading details into the staging area from where the details are loaded into the main scheduled visits tables
- Alerts and notifications at both the Mirth server level as well as through channel in the form of email notifications

Value Delivered

By partnering with CitiusTech, the client was able to:

- Enable rapid solution development for each new customer with a similar interface
- Leverage CitiusTech's healthcare interoperability and integration expertise for standards-based integration with the existing modules and design a scalable and optimal performance solution
- Enable optimized performance for processing of files with a quick turnaround time
- Set alerts and notifications and immediately address any issues and avoid any delay in resolution
- Build reusable and configurable parameters to ensure that any changes in message format can be easily accommodated with minimal efforts
- Develop a cost-effective and a standards-based solution through CitiusTech's global delivery model

All product and company names mentioned herein are trademarks of their respective owners

About CitiusTech

CitiusTech is a specialist provider of healthcare technology services and solutions to medical technology companies, providers, payers and life sciences organizations, with over 2,700 professionals worldwide. CitiusTech's services and solutions include healthcare software development, healthcare interoperability, regulatory compliance, BI/analytics, consumer engagement, care coordination and population health management. CitiusTech helps customers accelerate innovation in healthcare through a number of solutions and accelerators for clinical quality reporting, healthcare big data, cloud computing, mobile health and predictive analytics. With cutting-edge technology expertise, world-class service quality and a global resource base, CitiusTech consistently delivers best-in-class solutions and an unmatched cost advantage to healthcare clients worldwide.

Princeton | Rochester | Dallas | Toronto | London | Dubai | Mumbai | Bengaluru | Singapore