

# Case Study: Missing Page Analysis Solution for a Leading CRO

## Client Requirements

Client is a leading contract research organization (CRO) providing clinical research services to life sciences, pharmaceutical, and biotechnology organizations. Missing page report is one of the key metrics for data management team to track study progress and meet the goal of timely data collection. Client was using SAS programs to generate reports based on manual inputs provided by the data management team. To make the process more efficient and streamlined, client needed an enterprise solution to replace the legacy workflows and systems for missing page analysis.

Given its expertise in clinical workflows and healthcare domain, CitiusTech was selected to conduct an assessment to understand current processes and workflows and provide a desired state analysis and technical solution design.

to understand the missing page report requirements. The solution was required to automate visit schedule management for patients in trial, rules management for analysis, page suppression management and projection data analysis.

The solution also needed to be flexible to accommodate electronic data capture systems (RAVE, InForm, OmniComm, etc.), be scalable to support client's clinical trials across the globe and adapt to evolving clinical study models.

## Solution Design and Development

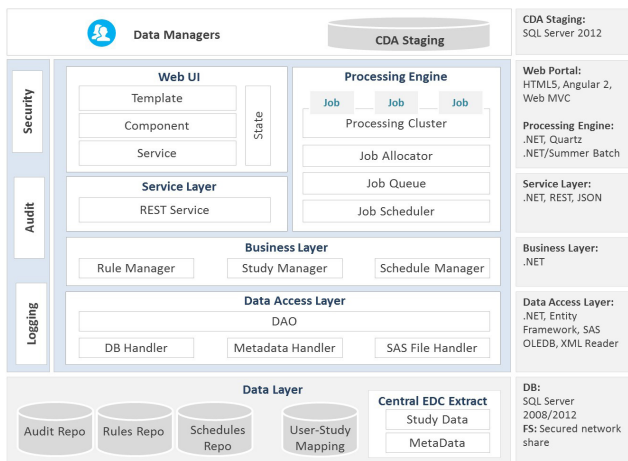
CitiusTech assembled a team of clinical trial domain specialists to develop the solution along with technical experts. The solution design included -

- A robust data injection strategy which could accommodate multiple file formats for study data and metadata.
- Data transformation strategy to support multiple formats of data coming from EDC system data feeds which can be easily consumed by the rules engine.
- Flexible data rules engine which could be configured by the data management team of studies and system analysis to identify missing pages from case report forms.
- Outbound data integration to support the client's reporting requirements.

## Value Delivered

By partnering with CitiusTech, the client was able to:

- Identify the limitations in the current processes and make appropriate changes leading to improved efficiency and performance.
- Reduce cost by eliminating manpower required for manual operations.
- A robust technical design framework to bring in automation in current processes
- A future proof system which can accommodate current and future clinical trial load across the globe.



## CitiusTech Solution

### Requirement Analysis

CitiusTech team conducted a detailed process assessment of client's existing workflow for missing page analysis and

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## 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.

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