

HEALTHTECH · CLAIMS · AWS CLOUD

Integrating a Hospital PMS with an Insurance Company System

How Sidhyati connected a hospital's Patient Management System to an insurer's platform, automating real-time claims on a secure AWS cloud foundation, delivered through an AI-driven software development lifecycle.

5 days

Claim processing, down from 15

~30%

Reduction in error rates

Real-time

PMS ↔ insurer data exchange

OVERVIEW

Hospitals and insurers depend on a fast, accurate flow of claim data, yet the two systems rarely speak the same language. Sidhyati built a comprehensive integration between a hospital's Patient Management System (PMS) and an insurance company's platform, streamlining claim processing, reducing errors, and expediting reimbursements. The solution runs cloud-native on AWS and was delivered through an AI-driven engineering process.

THE CHALLENGE

Manual claim processing led to delays, errors, and heavy workload, while data discrepancies caused mismatched or incomplete information and claim rejections.

Regulatory compliance raised data-privacy and security demands, and the lack of a unified workflow undermined revenue-cycle management and claim-settlement timelines.

OUR APPROACH

We designed a real-time integration on AWS, using managed cloud services for elastic scale, encrypted data, and high availability between the two systems.

Delivery ran on an AI-augmented SDLC: AI-assisted analysis structured requirements, AI pair-programming and automated tests sped the build, and AI code review held quality across every sprint.

AI × SDLC · ON AWS AI-driven delivery on a cloud-native foundation

01

Discover

AI-structured claims requirements & mappings

02

Build

AI pair-programming for integration services

03

Assure

Automated tests & AI review on AWS pipelines

04

Operate

Cloud monitoring & anomaly detection

THE SOLUTION

A comprehensive integration solution, deployed on AWS, that automates the claim lifecycle between hospital and insurer while keeping sensitive data secure and compliant.

■ Automated real-time exchange

Live data flow between hospital PMS and insurer.

■ Centralized claims interface

One view for claims with real-time updates.

■ Encryption & secure auth

Advanced encryption and secure authentication.

■ Digital workflows

Automated validation across the claim lifecycle.

■ Integrated analytics

Insights for informed decisions and improvement.

■ AWS cloud foundation

Elastic, secure, highly available integration.

THE IMPACT

→ Reduced claim processing time to **5 days** from **15**.

→ Cut error rates by **nearly 30%**.

→ Decreased hospital workload across the revenue cycle.

→ Improved patient satisfaction with quicker claim settlement.

→ Reduced overall expenses through automation.

→ **Cloud reliability:** the AWS foundation scales with claim volume without disruption.