



WaveAccess  
We Make IT Easy

# Healthcare insurance blockchain integration for a major US pharmaceutical company

# About

WaveAccess is a results focused software development company that provides high quality software outsourcing services to hundreds of emerging and established companies globally. We use our technical expertise to increase business efficiencies, optimize slow or unreliable systems, recover projects that have gone off track and bring ambitious ideas to life.

**22**

years of delivering successful outcomes for customers

**800+**

talented and passionate professionals

**8**

R&D centers and regional offices

**17+**

industry verticals from banking to healthcare

**500+**

successful projects delivered and counting

**96%**

customer satisfaction index

## Awards and Recognitions



SCI-TECH AWARDS  
(ACADEMY OF MOTION PICTURE ARTS AND SCIENCES)

## Locations



**USA**  
sales offices



**Denmark**  
sales offices



**Eastern Europe**  
sales offices



**Germany**  
sales offices

## Core Competencies



Implementation of highly loaded and highly scalable systems



Workflow and business process automation



Development of Real Time Monitoring Systems



Microsoft Dynamics CRM development, customization and implementation



Blockchain implementation



Web and Mobile applications development



Building ETL and BI Systems



Project recovery



Building AI and Machine Learning based systems



System Integration and optimization



Data import and migration



IoT project development

# Project Overview

## Users

10+ companies  
(per each US state)

## Team Size

2 members

## Duration

1 months

## Business Challenge

The challenge was to save time and costs by settling formalities automatically, eliminating paperwork and human factor wherever possible in the whole process.

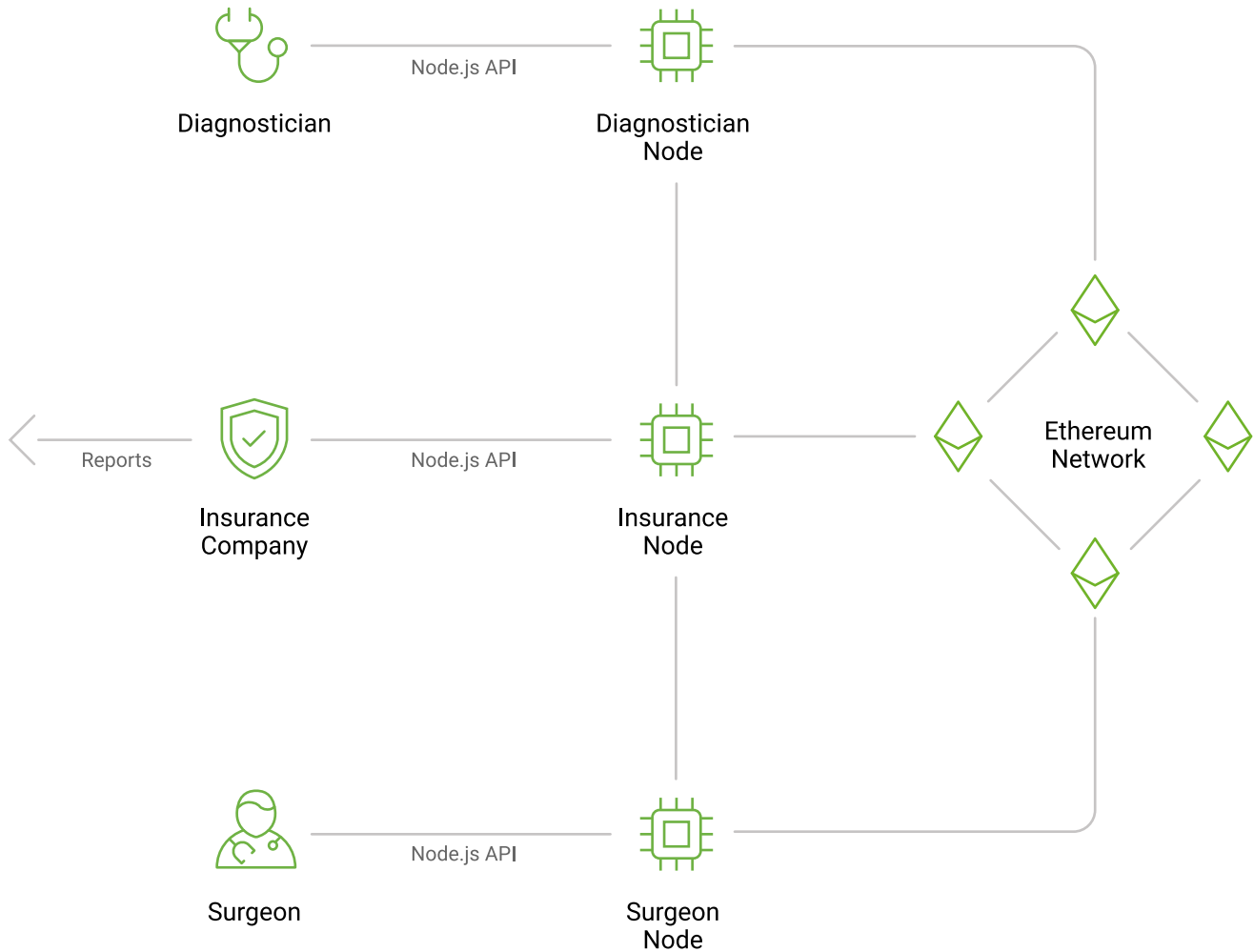
For patients with severe conditions, it is often a matter of life and death to get a timely treatment or surgery. In most cases, these medical procedures are also very costly, and the expenses may or may not be covered by the patient's insurance plan. It takes time for a healthcare provider to coordinate all expenses with an insurance company, and to deliver the patient's healthcare record from a diagnostician to a surgeon in a different clinic – and there is a lot of paperwork and human factor involved.

## Solution and Technologies

- A private blockchain platform was deployed on Monax.io (ex-ERIS) to store data and process business rules.
- A REST API server on NodeJS to facilitate the connection of third-party applications (“oracles”) to the blockchain was deployed.
- A number of auxiliary utilities for blockchain testing and development was implemented.
- Smart Contracts for document flow among partners (transition from instance to authority) of health insurance cases were developed.
- Load testing for the TTX blockchain was developed and implemented, taking into account hundreds of thousands of transactions.



## Architecture



## The Result

A prototype of a secure data storage system has been developed to ensure that all formalities are settled automatically and all parties involved in the treatment process have access to the information they need, effectively minimizing the wait time for patients. The solution has potential for use in healthcare insurance and other industries that use personal data and require quick decision making.



If you have a project for us,  
please get in touch

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