

#### CUSTOMER SUCCESS OVERVIEW

#### A HEALTHCARE TECHNOLOGY COMPANY

Transformed the health insurance benefits and claims process with a blockchain-based technology platform

## **CONTEXT – CURRENT PROCESS**

Insurance claim and reimbursement process lifecycle for patient



Provider refunds to consumers is expected to grow by 5 percent from 2018 to 2022. The report estimates refunds totaled 2.6 billion in 2018 and will total 3.1 billion in 2022. <u>(Source)</u>

# CHALLENGES – CURRENT PROCESS



Lack of transparency between accumulator and partner \_\_\_\_

Manual processes leading to higher reconciliation costs, FTEs and member abrasion Siloed systems and data without any realtime communications between them Data duplication and discrepancies

## OUR CLIENT AND CHAINYARD'S ROLE

Our client, a healthcare technology company was looking for a better solution to settle the claim, manage members, PBM, and benefit accumulator. They wanted to solve this at a industry level, so that the solution can be available to all healthcare benefit managers and transform benefit management ecosystem. Chainyard, with its extensive expertise and experience in providing Digital transformation solutions for diverse businesses, was chosen to provide a solution.

#### Chainyard is responsible for

- Implementation of a decentralized environment for data sharing among different insurance companies, vision, dental and behavioral healthcare organizations and PBMs
- Supported development of APIs for Member, Benefit accumulator, and PBM management
- Completely transformed the UI/UX experience for test users to firsthand visualize the data



## SOLUTION – PARTICIPANTS & KEY TECHNOLOGIES

A secure open API SaaS solution built on blockchainbased distributed ledger platform for the health insurance benefits and claims process



KEY TOOLS & TECHNOLOGIES		
<b>Hyperledger</b> <b>Fabric</b> For blockchain platform	<b>Angular</b> For UI components	<b>NodeJS</b> For API-based services
<b>Golang</b> For chain code	<b>MongoDB</b> Non-blockchain database	PostgreSQL & CouchDB Blockchain database
<b>Terraform</b> For AWS services provisioning	Ansible Automation For configuration / deployment	AWS Elastic Kubernetes Service to host the platform
<b>Palo Alto Networks</b> For firewall	<b>Crowdstrike</b> For antivirus	<b>Prometheus</b> event monitoring and alerting

# NEW PROCESS

A consent based distributed exchange of member accumulator information, based on the Blockchain ledger to store and retrieve data in real-time.



**MEMBER ENROLLMENT** – Group or individual selects the plan and enrolls into payer membership system and creates contract/IDs. Each delegated partner receives the member enrollment information **ADJUDICATION** – All Claims (Medical, Pharmacy, Vision, Dental, Behavioral are submitted to respective benefit managers lin real-time and benefit accumulators are updated transparently in real-time. **PAYMENTS** - All parties responsible for managing benefits have access to a member's up-to-the-minute accumulator balances. The burden of reconciliation is eased due to the immediate distribution and transparency of an immutable ledger.

## **RESULTS – KEY BENEFITS**



accurate payment at the pharmacy and medical provider



with the right information available instantly between delegated network partners



due to real-time exchange of patient benefit utilization across the providers



## **RESULTS – KEY BENEFITS (contd.)**



estimates accurately the landed cost for patients based on use of accurate benefit accumulators



of information with an immutable, distributed, single source of truth accessible by all participants



FASTER NEW PBM INTEGRATION network effect and standard connection to any PBM solution, enables payers to quickly onboard new PBMs



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#### **Customer Success Briefs**

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