

# PAYMENTS BLOCKCHAIN

Proof of Concept

02.10.2019

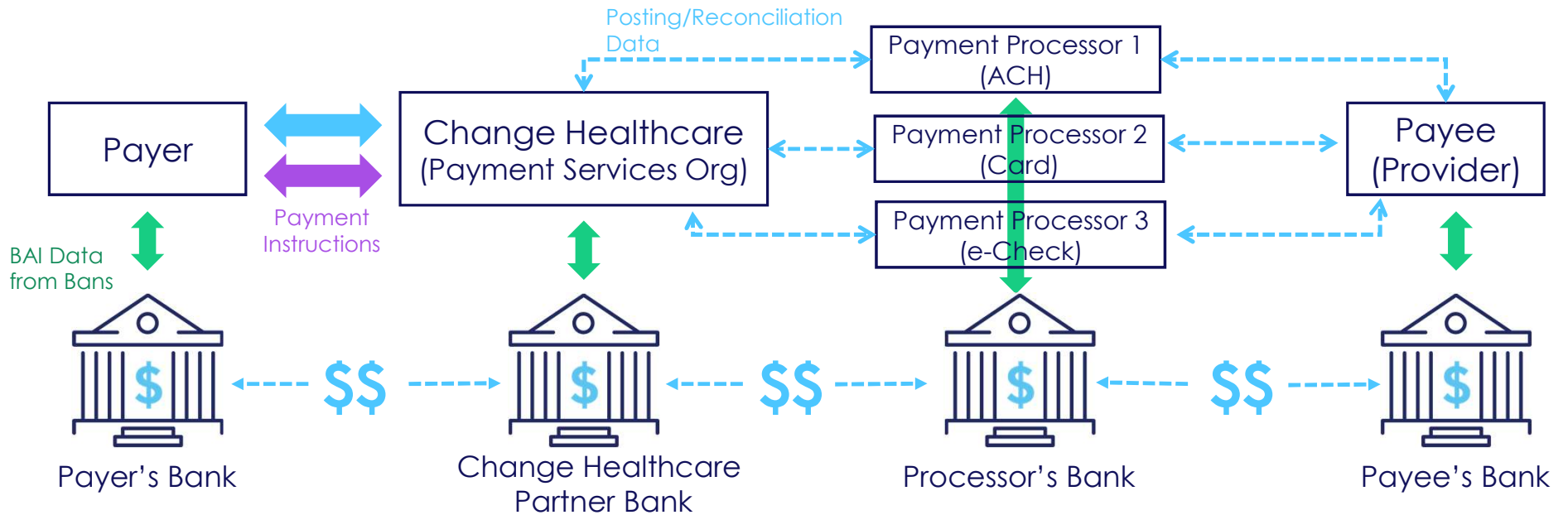
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**Disclaimer: This is a demonstration of a proof-of-concept on how a payment blockchain for healthcare could work, and should not be considered a developed, shipping, or about-to-ship product.**

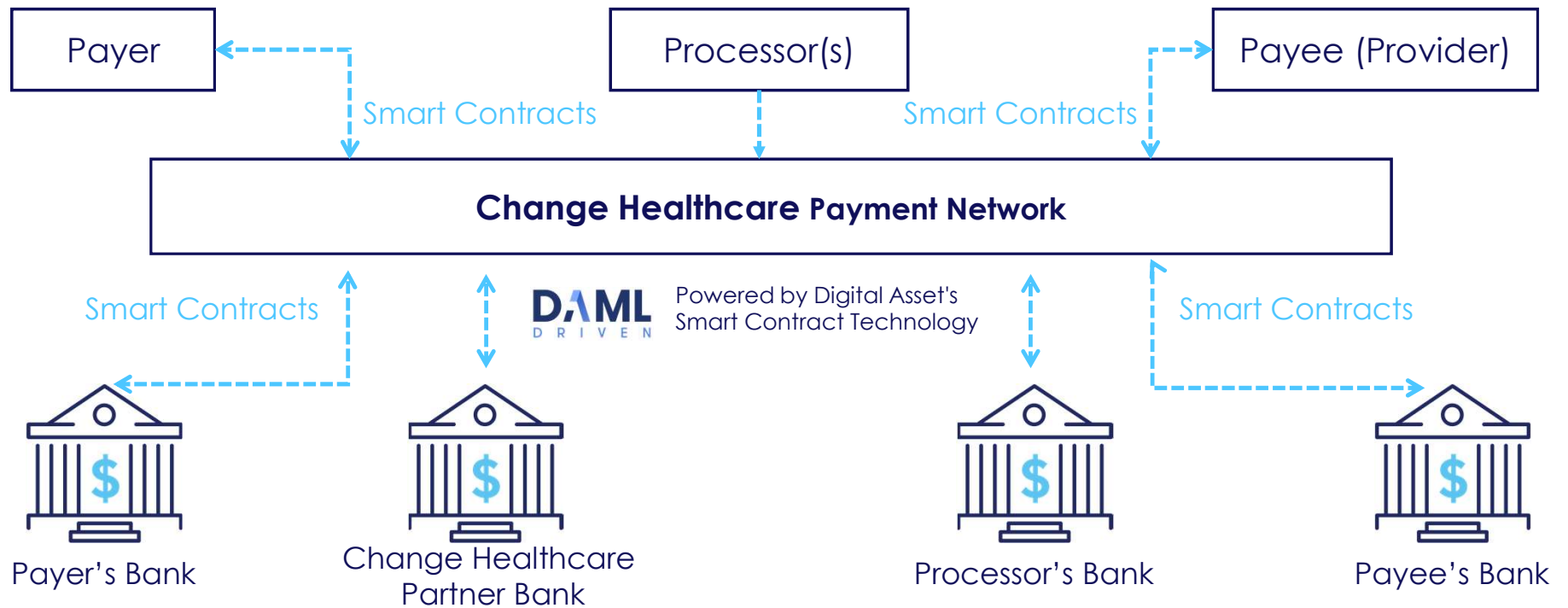
**CHANGE**  
HEALTHCARE

# Current Payment Process Complexity



Series of disconnected money and data transfers which slow provider reimbursements, increase reconciliation challenges, and limit payments transparency

# Blockchain Payment Process



Streamlined payment processes which improve the secure exchange of payment details while enhancing transaction transparency

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# Blockchain Payment Process in Action

Payer

Drawn Down Proposal (Accepted)

Disbursing Processor (EPX)

## Distributed Ledger

PARTY SELECTION  
CHC REFRESH

**Payments**

REFERENCE ID	PAYER	PROVIDER	AMOUNT	STATUS	STATUS TIME	ACTIVE CONTRACT ID	ACTION
P-24	Aetna	Mercy Health	100	Drawdown Pending	12/20/18 14:12:27	#2:1	<input type="checkbox"/>

CREATE PAYMENT

**Funding Groups**

REFERENCE ID	PAYER	PAYMENTS	AMOUNT	STATUS	STATUS TIME	ACTIVE CONTRACT ID	ACTION
F-18	Aetna	1	100	Drawdown Pending	12/20/18 14:12:27	#4:1	<input type="checkbox"/>

INITIATE FUNDING

**Ledger Contracts** HIDE ARCHIVED CONTRACTS

CONTRACT ID	CONTRACT NAME	REFERENCE ID	AMOUNT	CREATE TIME	ARCHIVE TIME
#4:1	Drawdown.Drawdown	F-18	100	12/20/18 14:12:27	
#3:1	Drawdown.DrawdownProposal	F-18	100	12/20/18 14:12:16	12/20/18 14:12:27
#2:1	Payment.Payment	P-24	100	12/20/18 14:12:11	
#0:0	Roles.Operator			12/20/18 14:11:41	
#1:1	Roles.ClearingHouse			12/20/18 14:11:41	

Payment Contract Created

Clearinghouse Bank (Cass)

Draw Down Contract Created

Funding Contract Created (Accepted)

Party-level security limits user access to only ledger elements they require

# Payments Blockchain Overview

- Distributed Ledger
  - Eliminates need to post transactions to disparate systems, reducing the potential for data discrepancies
- Smart Contracts capture business rules for funding and disbursement
  - Defined business rules for multi-party integration and payment processing
- Easily accessible transaction history
  - Reduces the cost and inconvenience of routine payment inquiries
- Support for multiple direct and indirect parties
  - Add processors and banks as needed to the payment network