



idea



problem



solution



opportunity



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# Trust My Identity



solving Track 1 – Identity Management and APIs

while dabbling in Track 3 – Data Aggregation and Linkage

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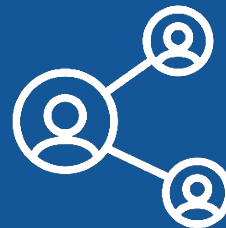
## inaccurate information

Payer have non-standard provider  
data structures-Legacy systems  
store data in multiple disconnected  
databases



## cumbersome processes

Latency in updates  
Complex and dynamic data



## limited sharing

Multiple versions of data  
Need based siloed data



## What did we use?

- IPFS
- Monax Blockchain (Ethereum + Tendermint)
- BigChain DB (BFT + NoSQL DB)

## How do we manage identity?

- Manage attestation by running a smart contract system based on DOUG
- Enforce digital signatures for persistent Primary Source Verification

## How do we link data?

- Consensus-controlled authority
- Linked payloads in BigChain DB
- Split data from the blockchain with pointers



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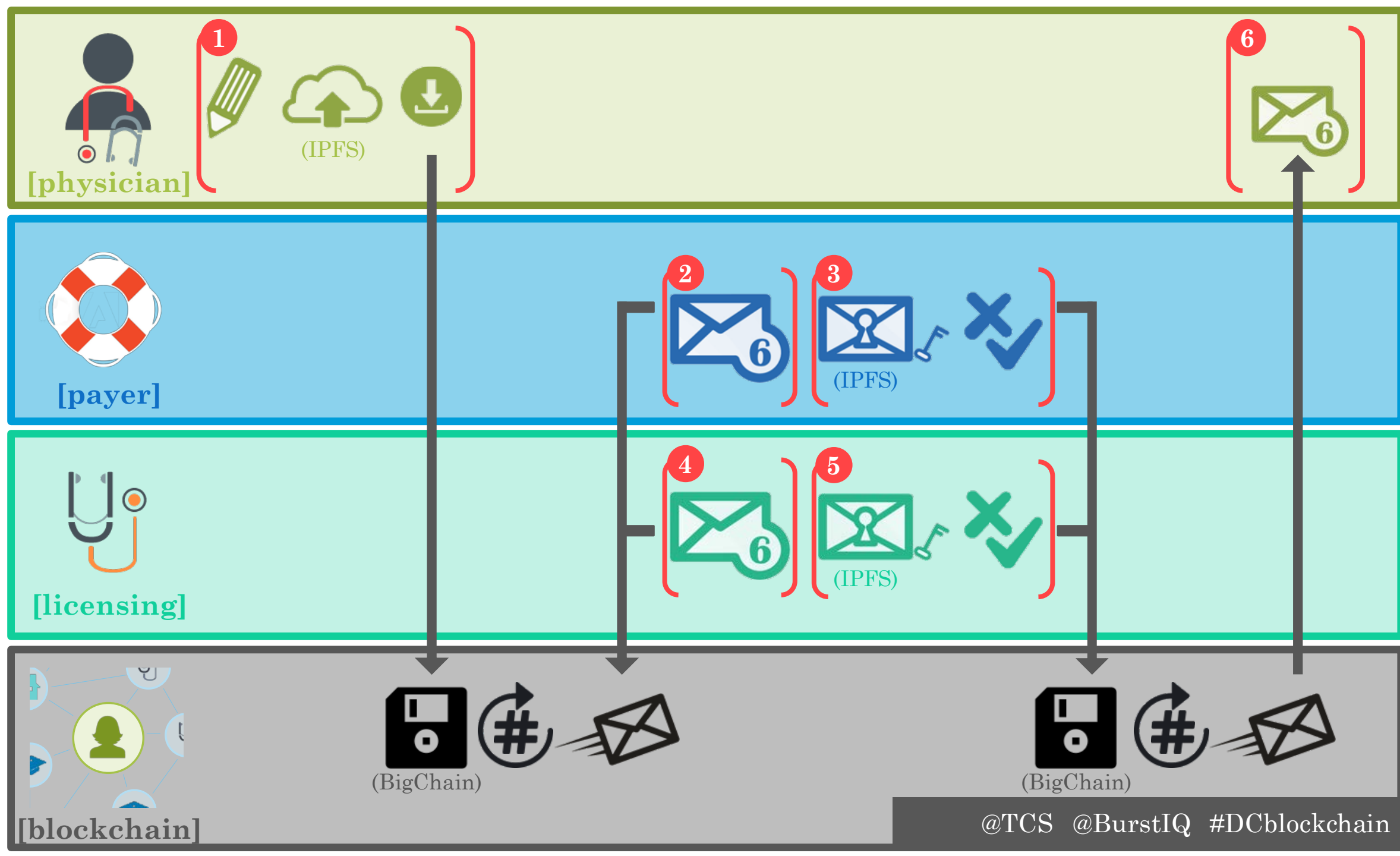
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1

# Physician creates a profile

Foundation | Welcome x Foundation | Welcome x

localhost/blockchain/#/register

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## Register to the Blockchain Ledger

Email	Primary Speciality
Linda.Myers@gmail.com	Anesthesiology
NPI	Secondary Speciality
999001234	
LastName	Tertiary Speciality
Myers	
FirstName	Phone Number
Linda	(855)-234-1234
	Address
	5255 Loughboro Road N W, Washington DC 20016

Network	Credentialing	Affiliation
Network Name	Credential Type	Affiliation Entity
Carefirst BCBS	Board Certificat	The American B
Network Name	Credential Type	Affiliation Entity
Network Name	Credential Type	Affiliation Entity
Add More...	Add More...	Add More...

2

## Payer receives a trigger to verify network affiliation

The screenshot shows a web browser window with the URL `localhost/blockchain/#/profile`. The page has a dark sidebar on the left with navigation links: Home, Upload Keys, Vote, Notifications, Name Registry, Core Identity, Assets, My Documents, and My Gatekeeper. The main content area is titled "Actions or Notifications" and contains a summary bar with "Pending 1" (circled in red) and "Completed 10". Below this is a table with one row of data.

From	Subject	Accept	Reject
<code>linda.myers@gmail.com</code>	Add to Care First BCBS network	✓	✗

3

## Payer certifies network affiliation

Foundation | Welcome x Foundation | Welcome x venkatesh

localhost/blockchain/#/profile

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Home

Upload Keys

Vote

Notifications

Name Registry

Core Identity

Assets

My Documents

My Gatekeeper

Actions or Notifications

Pending 0 Completed 11

From	Subject	Accept	Reject
------	---------	--------	--------

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## Board receives a trigger to verify clinical specialty

The screenshot shows a web browser window with the URL `localhost/blockchain/#/profile`. The page title is "Actions or Notifications". At the top, there are two tabs: "Pending 1" and "Completed 5". Below these tabs is a table with the following data:

From	Subject	Accept	Reject
<code>linda.myers@gmail.com</code>	Board certification from The American Board of Anesthesiology	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The left sidebar contains the following menu items: Home, Upload Keys, Vote, Notifications, Name Registry, Core Identity, Assets, My Documents, and My Gatekeeper.



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## Board rejects clinical specialty

Foundation | Welcome x Foundation | Welcome x venkatesh

localhost/blockchain/#/profile

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Home

Upload Keys

Vote

Notifications

Name Registry

Core Identity

Assets

My Documents

My Gatekeeper

Actions or Notifications

Pending 0 Completed 6

!

From	Subject	Accept	Reject
------	---------	--------	--------

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## Physician profile is update + Physician is notified of attestations

Foundation | Welcome x Foundation | Welcome x venkatesh

localhost/blockchain/#/register

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### Register to the Blockchain Ledger

Email	Primary Speciality
Linda.Myers@gmail.com	Anesthesiology
NPI	Secondary Speciality
999001234	
LastName	Tertiary Speciality
Myers	
FirstName	Phone Number
Linda	(855)-234-1234
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Network	Credentialing	Affiliation
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Network Name	Credential Type	Affiliation Entity
Network Name	Credential Type	Affiliation Entity
Add More...	Add More...	Add More...



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[patient]



[physician]



[practices]



[payer]



[licensing]



[regulatory]

## Distributed Provider Directory drives

Accurate provider information



Faster credential verification



Asynchronous + real-time updates by multiple entities



Patient-centered care options



Interoperability at scale, on steroids



## ... and facilitates

Transition to value-based payment models



Improved care coordination



Easier population health analytics + reporting





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**Uppi  
Reddy**



**Andreas  
Freund**



**Venky  
Raghunathan**



**Shane  
Giehll**



**Lily  
Bragg**



**TATA** CONSULTANCY SERVICES



@TCS @BurstIQ #DCblockchain



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Include blockchain as a recommended tech in the design + implementation of distributed provider directories



Encourage recipients of CMS funding to invest in developing distributed provider directories



Provide education on use cases + advantages of blockchain

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**Uppi  
Reddy**



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**Venky  
Raghunathan**



**Shane  
Giehll**



**Lily  
Bragg**



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