



LUMEDIC

a PSJH company

Healthcare Digital Credentials

Ben Parkison

Context

Who we are and what we're trying to accomplish



Statistical overview

 **51**
HOSPITALS

 **829**
CLINICS

 **5m**
UNIQUE
PATIENTS
SERVED

 **16**
SUPPORTIVE
HOUSING
FACILITIES

 **119k**
CAREGIVERS

 **38k**
NURSES

 **25k**
PHYSICIANS

 **2.1m**
COVERED
LIVES

 **1.2m**
HOME HEALTH
VISITS

 HIGH SCHOOL
NURSING
SCHOOLS &
UNIVERSITY

 **1**
HEALTH
PLAN

 **\$1.6b**
COMMUNITY
BENEFIT



OUR CHARTER

Reimagine. Inside Out

Innovating from within the Providence ecosystem, rebuild the systems at the core of healthcare administration

Technologies like blockchain and machine learning let us view today's challenges through a new lens.





Digital identity in healthcare

Identity

Who manages my digital identity today?



Social Profile
Interactions
Photos/Videos
Posts



Birth Certificate
Tax Filings
Marital/Family Status
Home Address



Emails
Data Storage
Browser/Search



Home Address
Demographic Information
Driving Record



Professional History
Network
Posts

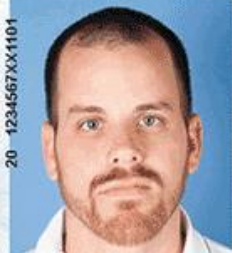



Healthcare Credentials

John Sample arrives at Cherry Hill Medical Center on Jan 10, 2020 for an MRI ordered by his orthopedic surgeon.

WA USA **WASHINGTON** DRIVER LICENSE
FEDERAL LIMITS APPLY

20 1234567XX1101




4d LIC# **WDLABCD456DG** 9 CLASS **DONOR** 

1 **SAMPLE**
2 **JOHN A**


3 DOB **01/06/1958** 4a ISS **01/06/2015**

8 123 STREET ADDRESS
YOUR CITY WA 99999-1234




15 SEX **M** 18 EYES **BLU**
16 HGT **5'-08"** 17 WGT **165 lb**
12 RESTRICTIONS **B** 9a END **L**
4b EXP **08/12/2020**

John A. Sample 5 DDWDLABCD456DG1234567XX1101 **Veteran**
REV 07/01/2018

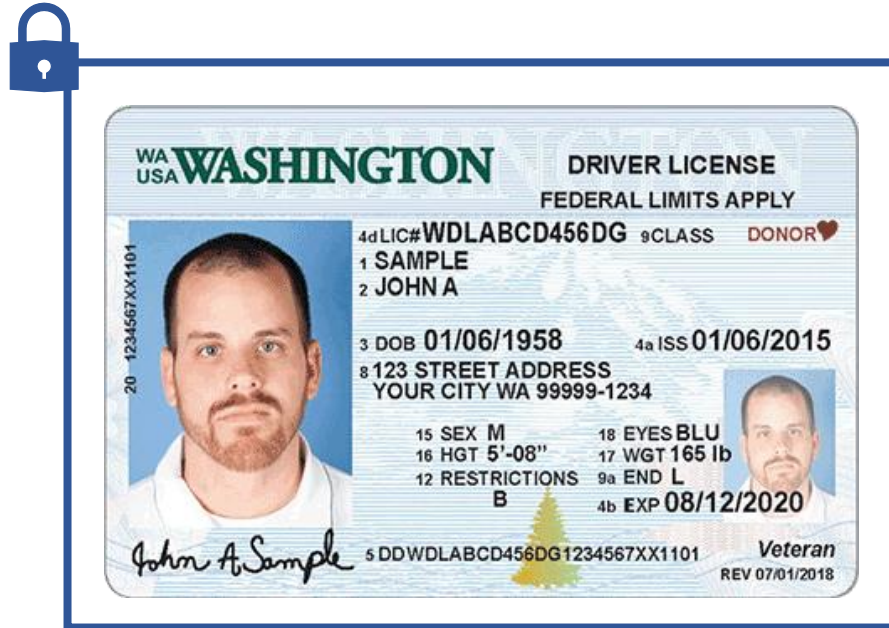
 **BlueCross®
BlueShield®** Blue Product **ALPHA**
Employer Group

Member Name JOHN A SAMPLE Member ID XY2 123456789	Dependents WILLIAM B SAMPLE MARY C SAMPLE
--	--

Group No. 023457	Plan POS
BIN 987654	Office Visit \$15
Benefit Plan HIOPT	Specialist Copay \$15
Effective Date 00/00/00	Emergency \$75
	Deductible \$50



Healthcare Credentials



Why do we trust this?

- Very hard to counterfeit
- Sophisticated ways to verify its authenticity
- High risk to counterfeiter
- Standardized
- Biometric information

Where does trust live: **In the credential itself**

With this piece of plastic alone I can:

- Gain access to secure areas
- Make financial commitments and get credit
- Secure housing
- Operate motor vehicles
- Buy weapons

Healthcare Credentials

Why do we trust this? – We don't.

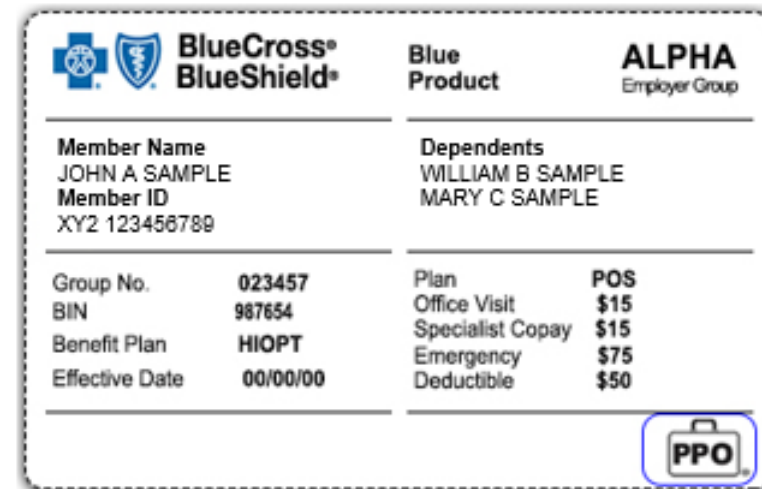
- Very easy to counterfeit!
- Low risk if counterfeit or incorrect

This document provides us a lookup key to use when searching the payer's database

Where does trust live: **In the receiver's existing relationship with the payer**

With this piece of plastic alone I can:

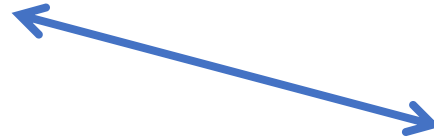
- Insinuate that I have health coverage



Healthcare Credentials

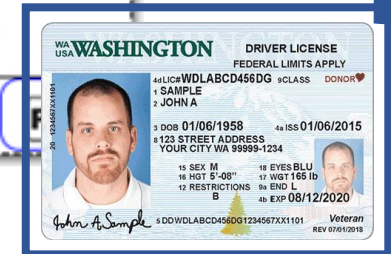


Patient



	BlueCross® BlueShield®	Blue Product	ALPHA Employer Group
Member Name JOHN A SAMPLE Member ID XY2 123456789		Dependents WILLIAM B SAMPLE MARY SAMPLE	
Group No.	023457	Plan	POS
BIN	987654	Office Visit	\$15
Benefit Plan	HIOPT	Specialist Copay	\$15
Effective Date	00/00/00	Emergency Deductible	\$75 \$50

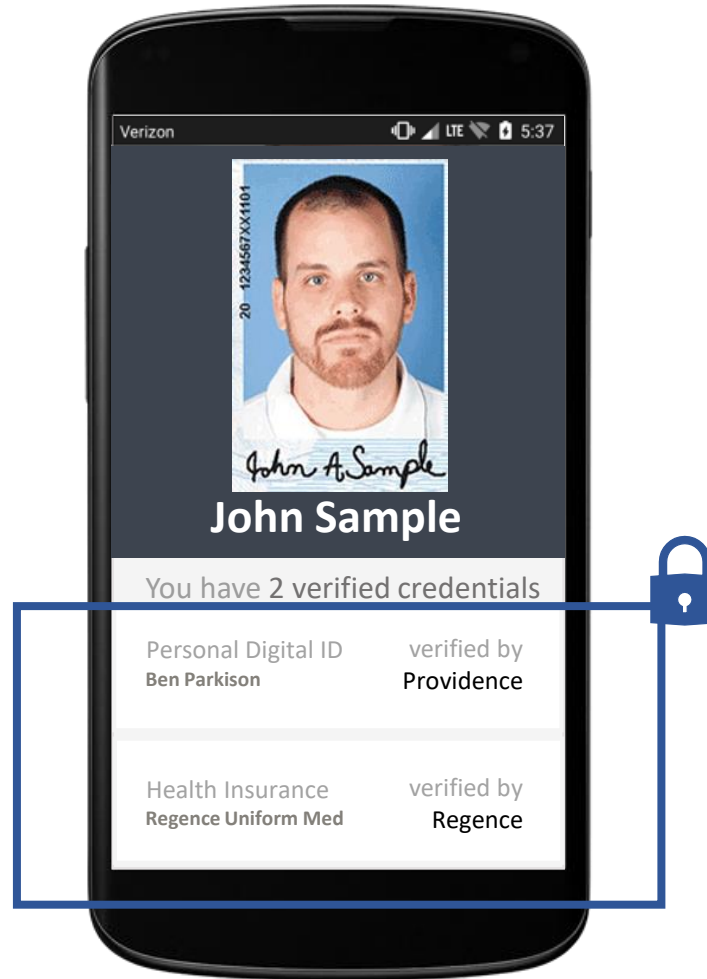
Where does trust live: In the receiver's existing relationship with the payer



Complicated, expensive, slow-to-adapt, errors and incompatibility, manual process.
Billing and Insurance Related Admin Costs are estimated ~ \$250B - \$500B Annually

Healthcare Credentials

- Credentials live on the device only, owned by the individual
- Trust lives with the credential itself
- Completely removes the need for expensive, complex, and slow-to-adapt back-end systems
- Highly portable



Lower Cost

Fewer Errors

More Secure

Better Patient Experience