



February 5 - 6 | Tempe, Arizona

Digital Credentials Comparison Report

Featured Speakers

Michael Dugan, CIO & SVP Operations, FSMB

Cyndi Streun, Assistant VP of Information Services, FSMB

Chris Jagers, CEO, Learning Machine



70 Boards. One Mission.


FSMB supports America's state medical boards in licensing, disciplining and regulating physicians and other healthcare professionals. Our end goal: keep patients safe.

Why Are Credentials Important?


Delays impact physicians ability to see patients.



For each day of improvement 16 FTE physicians become available.

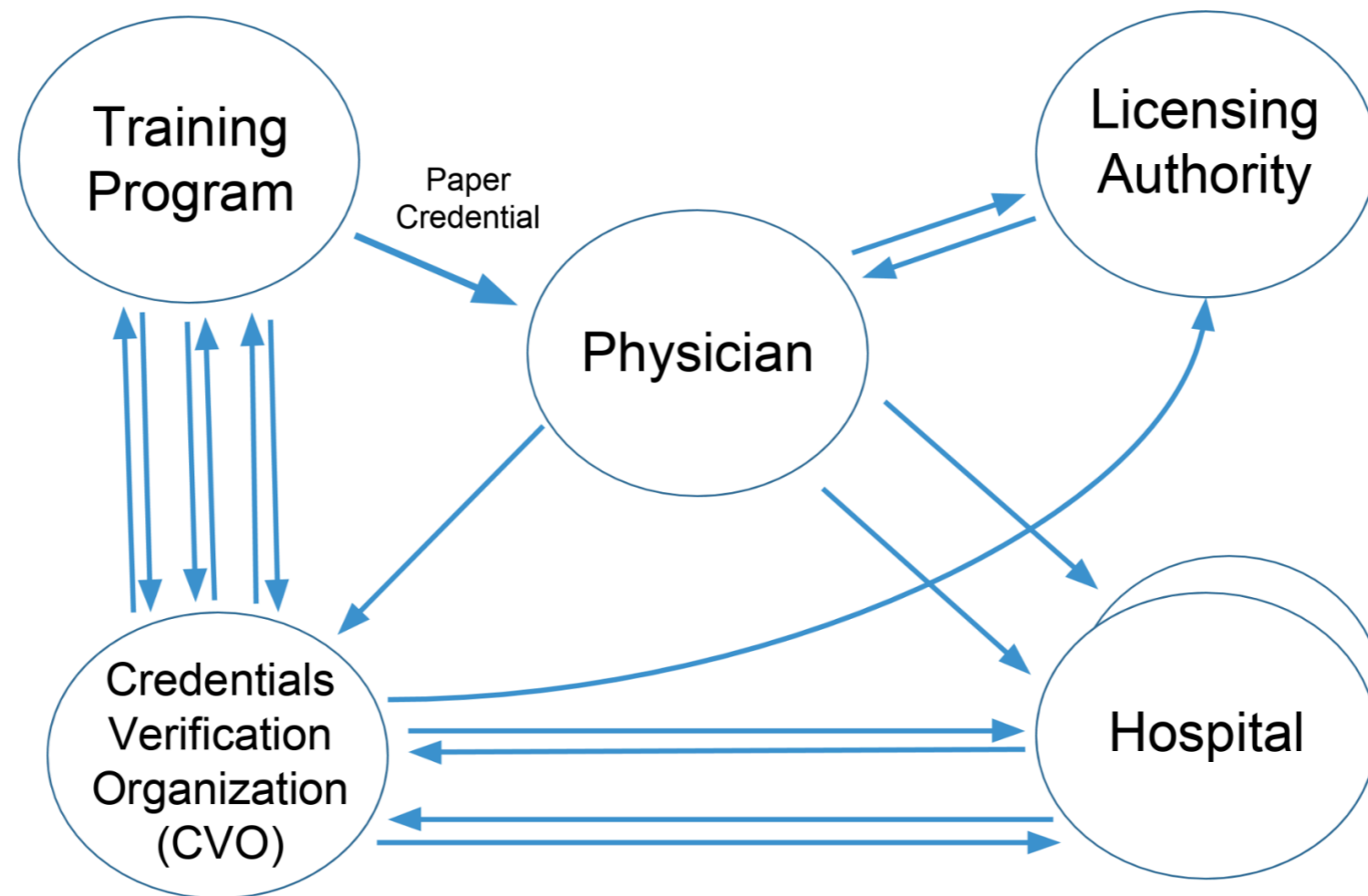


Administrative overhead contributes to physician burnout.

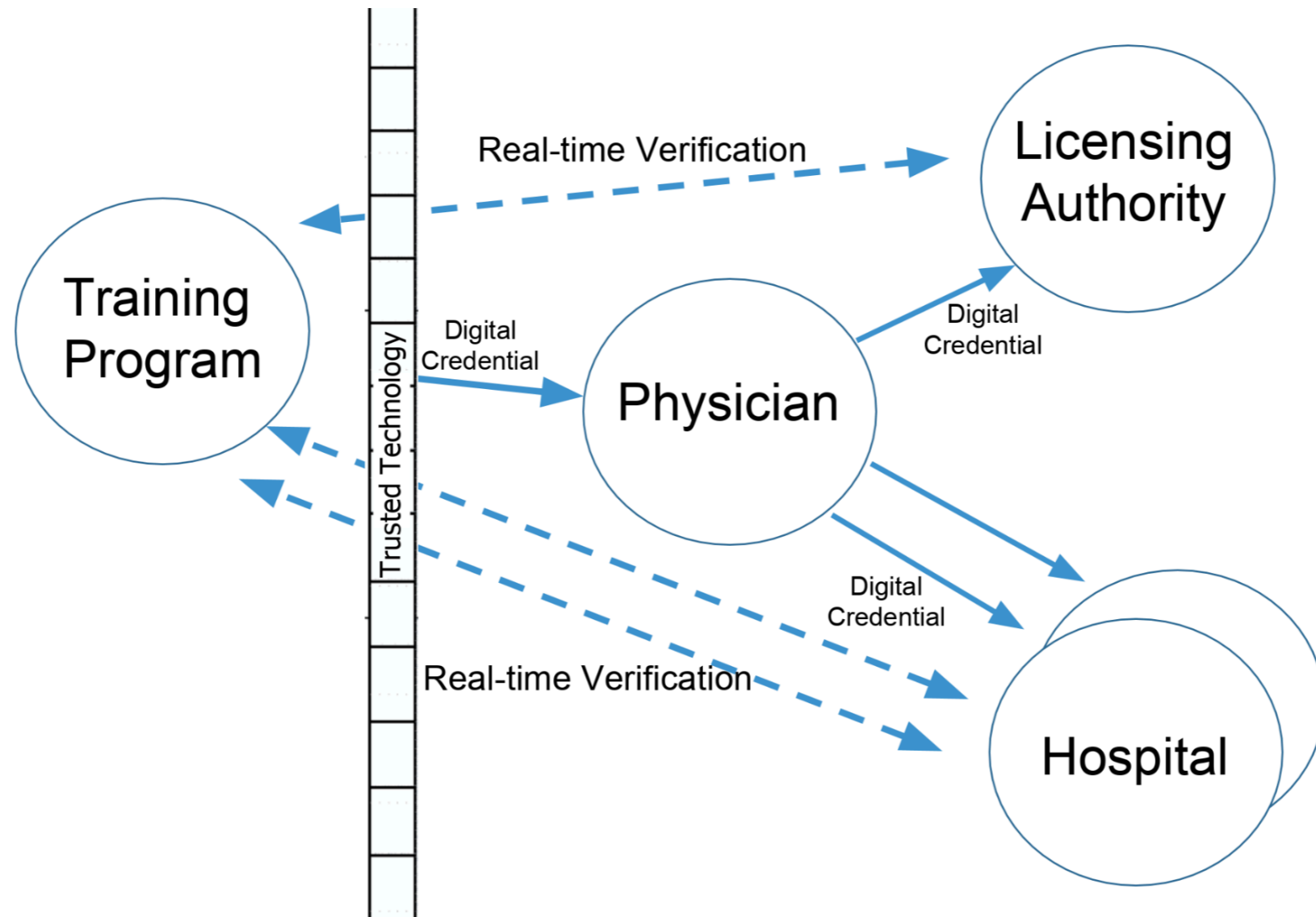


Each day waiting means lost revenue and income.

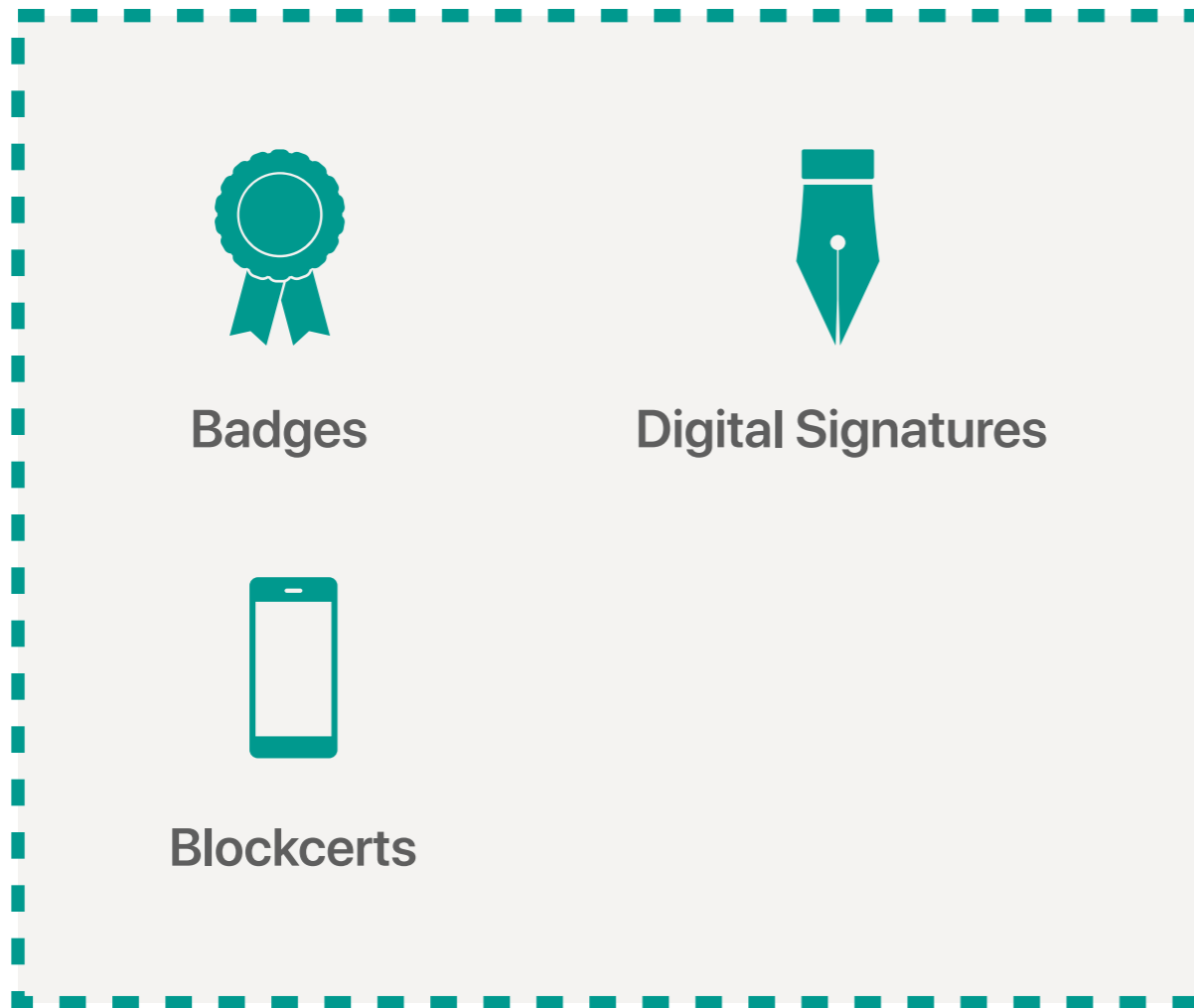
Current Verification Model



Future Model



Digital Credentials Comparison Report



W3C Verifiable Credentials

Criterion

File Format

Data Flexibility

Recipient Ownership

Tamper Evidence

Time Stamping

Integrated Data/Display

Shareable

Revokable

Expireable

Legal Enforcement

Open Badges

| | | |
|--------------------------------|--|---|
| File Format | PNG/SVG - Fixed image format | ✓ |
| Data Flexibility | Strict set of standard fields, which can grow w/ OB extensions | |
| Recipient Ownership | No - Recipients do not control cryptographic keys | |
| Tamper Evidence | No - Display could be changed, since data hosted elsewhere | |
| Time Stamping | No | |
| Integrated Data/Display | No | |
| Shareable | Yes | ✓ |
| Revokable | Yes | ✓ |
| Expireable | Yes | ✓ |
| Legal Enforcement | No | |

Digital Signatures

| | | |
|--------------------------------|--|---|
| File Format | PDF - Fixed layout. (Not optimized for machine parsing). | |
| Data Flexibility | Open | ✓ |
| Recipient Ownership | No - PDFs are signed by issuer or vendor (DocuSign) | |
| Tamper Evidence | Tiered (i.e. Electronic vs. Digital Signature) | ✓ |
| Time Stamping | Yes | ✓ |
| Integrated Data/Display | Yes | ✓ |
| Shareable | Yes | ✓ |
| Revokable | Not by the participants (only the vendor) | |
| Expireable | Only by certificate authority (not by issuer or recipient) | |
| Legal Enforcement | Yes | ✓ |

Blockcerts

| | | |
|--------------------------------|--|---|
| File Format | JSON - Machine readable and human readable with viewer | ✓ |
| Data Flexibility | Open | ✓ |
| Recipient Ownership | Yes - Recipients control cryptographic keys | ✓ |
| Tamper Evidence | Yes - Blockchain-enabled verification | ✓ |
| Time Stamping | Yes - Blockchain provides independent timestamp | ✓ |
| Integrated Data/Display | Yes | ✓ |
| Shareable | Yes | ✓ |
| Revokable | Yes | ✓ |
| Expireable | Yes | ✓ |
| Legal Enforcement | Yes* | ✓ |

*Blockcerts' legal validity has not yet been litigated. However, the Report's argument is that they exceed the eIDAS requirements for Qualified Digital Signatures, giving them a strong claim to legal status.

W3C Verifiable Credentials

| | | |
|--------------------------------|--|---|
| File Format | JSON - Human and machine readable | ✓ |
| Data Flexibility | Open | ✓ |
| Recipient Ownership | Yes | ✓ |
| Tamper Evidence | Yes | ✓ |
| Time Stamping | Yes | ✓ |
| Integrated Data/Display | Yes - provides a lightweight envelope open to any schema | ✓ |
| Shareable | Yes | ✓ |
| Revokable | Yes | ✓ |
| Expireable | Yes | ✓ |
| Legal Enforcement | Yes* | ✓ |

*Verifiable Credentials' legal validity has not yet been litigated. However, the Report's argument is that they exceed the eIDAS requirements for Qualified Digital Signatures, giving them a strong claim to legal status.

Additional Report Scope

| | |
|--------------------------------------|-----------------|
| Digital Signature Legislation | Global |
| Credential Regulation U.S. | FERPA and HIPPA |
| Credential Regulation E.U. | GDPR |
| Conclusions | |

Questions