



W3C CCG

VCs for First Responders



Agenda

Problem and Vision

Examples

CCG Technologies

Next Steps





Convicted Arsonist Busted Driving Fake Firetruck Into Palisades Fire Evac Site



Los Angeles
MAGAZINE
LOS ANGELES COUNTY SHERIFF'S DEPARTMENT



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lamag LATEST: Convicted Oregon arsonist Dustin Nehl and his wife, Jennifer, were arrested for allegedly impersonating firefighters and entering a Los Angeles evacuation zone in a fake fire truck.

The couple claimed to belong to a nonexistent fire department and wore official-looking gear to bypass security.

Authorities said the truck, purchased at an auction, had "Roaring River Fire Department" painted on it, misleadingly suggesting legitimacy.

This incident is part of a troubling pattern, with recent cases of impostors exploiting evacuation zones in California.



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Problem

- Uniforms can be faked
- Identification can be faked

It is difficult to get a real-time, "big picture" view of **verified responders** in a large scale incident.

Vision

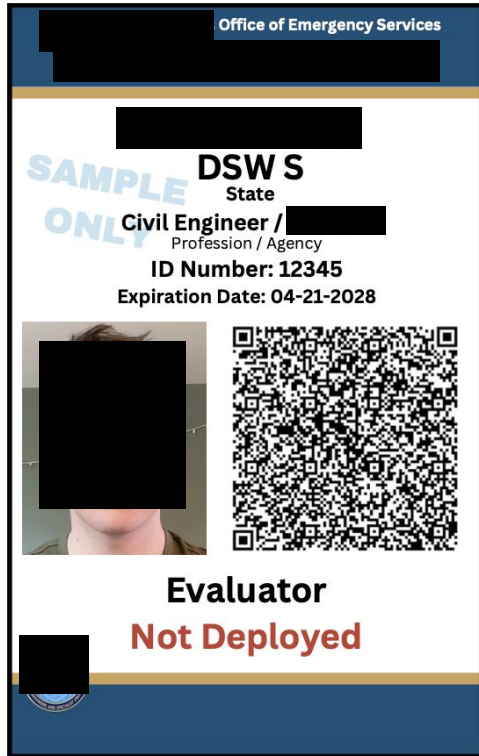
Deploy the right people,
with the right training,
to the right location,
at the right time.

Rapidly and accurately secure the perimeter.

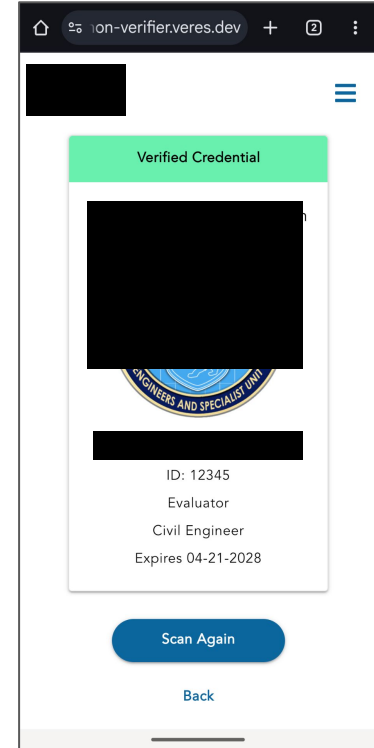
Challenges

- Power is down and then intermittent
- Networks are usually down at critical times
- Not everyone has a mobile wallet
- Environments are dirty
- Many jurisdictions are responding
 - Response is inherently decentralized

Current Focus: Secure Physical Credentials



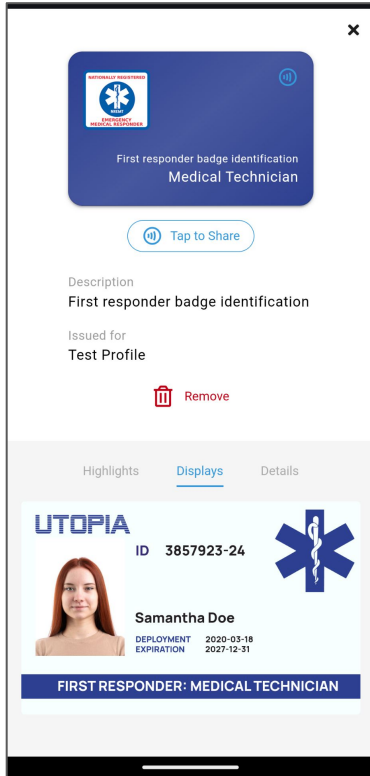
Verify a physical
First Responder Credential



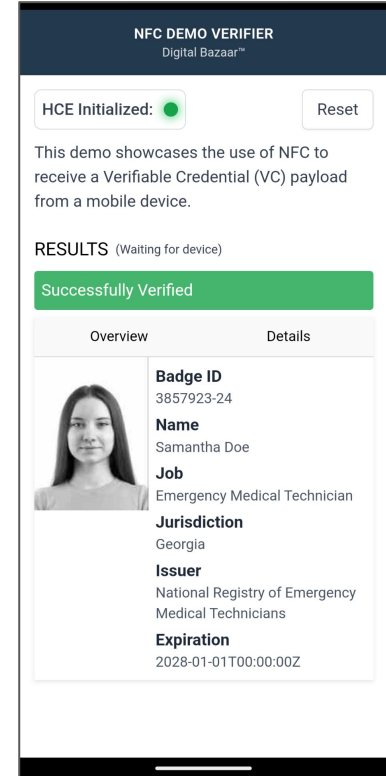
Physical Verifiable Credentials Technology

- [W3C Verifiable Credentials v2.0](#)
- [First Responder Vocabulary](#)
- [ECDSA Data Integrity v1.0](#)
- [CBOR-LD](#)
- [Verifiable Credential Barcodes](#)

Current Focus: Secure Digital Credentials



Verify a digital, offline-capable,
First Responder Credential



Physical Verifiable Credentials Technology

- [W3C Verifiable Credentials v2.0](#)
- [First Responder Vocabulary](#)
- [CBOR-LD](#)
- [Verifiable Credentials over Wireless](#)





Next Steps

- Pilot deployments in multiple large US states
- Expecting production deployments soon
- Suggest key CCG specs to go standards track in VCWG
 - VC API
 - CBOR-LD
 - VC Barcodes
 - VCs over Wireless