

OSET Institute partnered with AWS Professional Services to build a fully-managed digital ledger for the TrustTheVote® Project



Customer: OSET Institute, Inc.
Industry: Public Sector
Country: United States
Segment: Non-profit
Website: osetinstitute.org

Customer Profile:

OSET Institute, established in 2007 is nonpartisan, nonprofit on a mission to increase confidence in elections and their outcomes in order to preserve the operational continuity of democracy — ultimately worldwide.

The TrustTheVote® Project is the flagship fiscally-sponsored membership-based effort and a first-ever of its kind digital public works project. The goal is to develop publicly owned election software technology (the “People’s Voting System”) for any jurisdiction to adopt, adapt and deploy.



Challenges

- Electorate is the ElectOS™ subsystem for voter records management. Electorate Vanadium Ledger is the underlying data storage for the warehouse, implementing the distributed digital ledger
- Electorate Vanadium Core presents a Web services API for clients to access the data warehouse. Electorate Vanadium Ledger is the underlying data storage for the warehouse, implementing the actual distributed digital ledger
- Challenge was to use ledgering technology to vastly improve voter roll integrity without requiring extensive technical effort
- Challenge was to easily and quickly develop an open source voter registration ledger which improves election administration system integrity, security and verifiability



Solution

- AWS ProServe introduced Amazon Managed Blockchain as a fully-managed solution running Hyperledger Fabric, and deployed using Cloud Development Kit (CDK)
- This solution wraps the ledger as a single point of access control decisions about which software has the privilege to access the ledger
- Currently, the design supports the Electorate Vanadium Core as the sole component with that access
- The solution provides a rapid means to deploy Vanadium technology on AWS Managed Blockchain to provide a security prophylactic for central voter registration systems without requiring any modifications to existing systems.



Results

- Automated deployment of Electorate Vanadium Ledger on Amazon Managed Blockchain
- Successful storage and retrieval of voter registration transactions with immutability and auditability guarantees
- Ensures verifiable, accurate, secure and transparent operations
- Simplifies administration of election information
- Dramatically improves election data security
- Enhances trust in the voting process

Working with AWS Professional Services has been the most productive, results-oriented, and delightful experience in our organization’s 16-year history. The AWS Professional Services team is agile, responsive, and a genuine partner delivering tremendous value.

-Gregory Miller, Co-founder & Chief Operating Officer