Public Vote Option (PVO) XRPL Sidechain Smart Contract Decentralized Lobbying App

David Harness
Apple Developer Team ID: U2S9XH4H22
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dvhar19@gmail.com

Abstract. PVOXRPL monetized public polling app establishes general [iOS-Xcode-swift + html-php-MySQL + python-rippled-server-XRPL] smart contract network connecting a mobile user interface front-end with an XRP Ledger sidechain back-end. Users vote with PVO tokens on competing versions of bills with all tokens transferring to sponsor of winning version utilizing escrow cypto-conditions with hooks.

1 Introduction

The PVO Public Vote Option app is available in the App Store allowing users to vote between the competing versions of Democratic vs Republican vs Independent Congressional bills [1]. Currently PVO is not recording votes pending the objective of this grant to upgrade its back-end to incorporate python smart contracts on an XRP Ledger Federated Sidechain production validator rippled server [2]. In which case, each vote cast via PVO token—winner take all minus transaction fees—would monetize PVO public opinion polling thus introducing decentralized lobbying on individual Congressional versions of bills.

2 Method

The potentially large number of PVO monetized vote escrow transactions on an XRP Ledger sidechain, pending proposed amendments, has the advantage of near zero internal contract transaction fees maintaining nominal performance with the Mainnet's highly efficient focus on payments.

The key open source contribution of this PVO grant objective is development of its python rippled-server escrow crypto-conditions smart contract network of mobile users executing choices [3]. Thus creating an XRP use case for the SEC to object to market participants funding their own interests [4]. For example, a PVO monetized vote on the Davidson-Pierce Token Taxonomy Act [5].

PVO app generates JSON legislative governance time-series with objective of turning network over to bipolar organization and ultimately to Congress [6].

References

1. Harness, David, Public Vote Option (PVO) Voting Machine, 2021-10-04.
2. Schwartz, David, Vision for Federated Sidechains on the XRP Ledger, 2021-06-07.
3. XRP Ledger, Get Started Using Python, 2021.
4. Harness, David, https://github.com/ehounder/PVOXRPL, 2021-10-04.
5. Davidson, Warren, H.R.2144 - Token Taxonomy Act of 2019, 2019-04-09.
6. Apple, Beta Testing Made Simple with TestFlight, 2021-10-10.