

Bidder UI for the DutchX open protocol

The DutchX open protocol currently has the following tools and application to interact with it:

- Seller Interface (React Webapp)
- Command Line Interface
- Public REST API
- Bots (Liquidity Bot)
- Tasks scheduler (example usage: reporting and auto-claiming)

The Protofire team is glad to present this proposal to build the next most important application: a Bidder Interface. The proposal is based on the specifications provided by the Gnosis team in [this document](#).

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[December 18th, 2018](#)

Proposal Goals

Contribute to the Gnosis DutchX ecosystem by developing and **hosting** an open source, robust and easy to use web application, prioritizing the User Experience. It should be clean and simple, responsive (Mobile first design) and differ from Gnosis / DutchX / slow.trade designs.

This proposal also considers that the deliverables can be utilized as a template which could drastically simplify development of other end-user applications. Additionally, we can help improving the existing reference examples for the developer community (<https://github.com/gnosis/dx-examples-dev>).

Features

For the sake of simplicity, features have been aggregated by page:

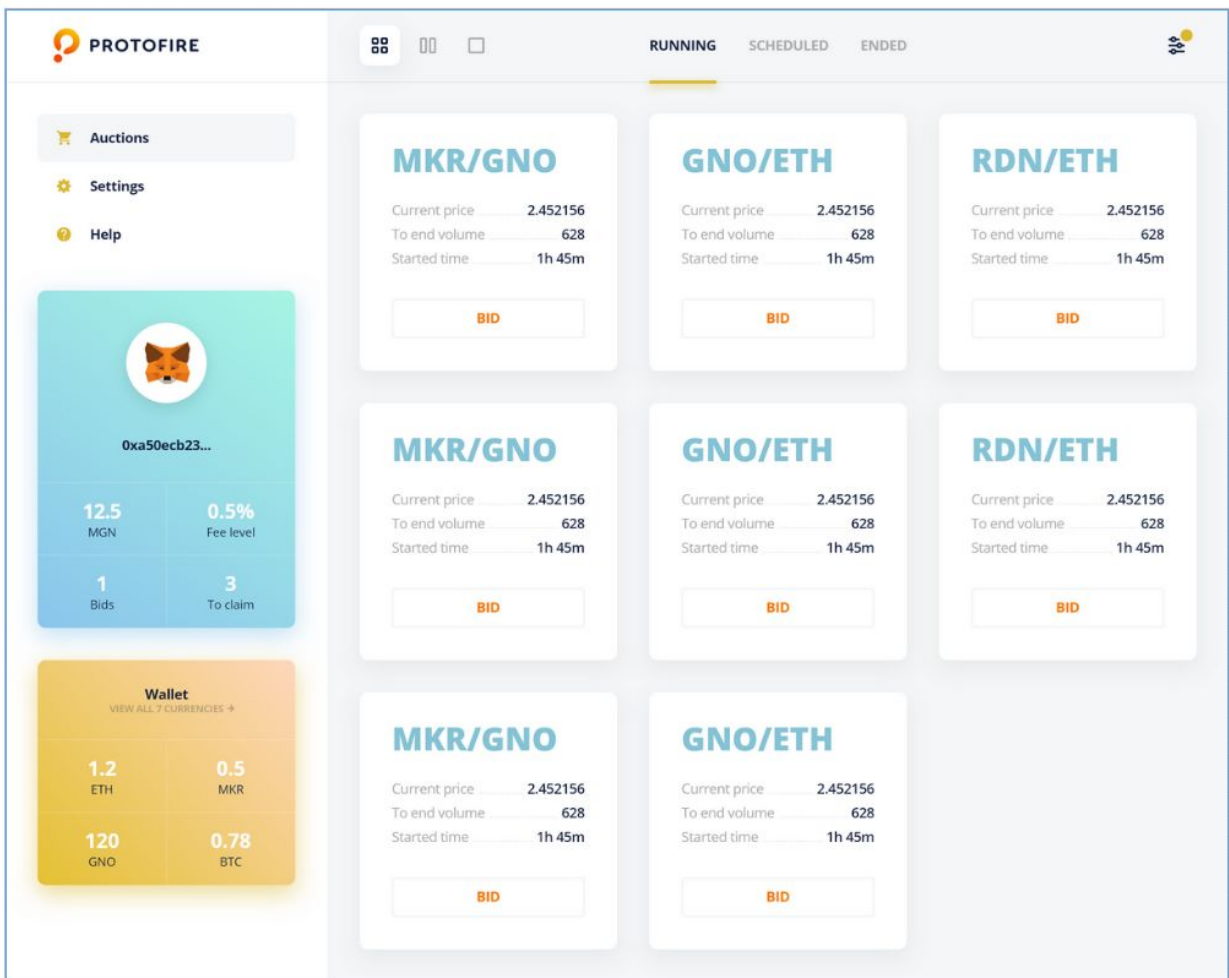
- Home
 - Connect MetaMask
 - Layout, Header, footer and sidebars
 - Auctions lists, sorting and filtering
- Auctions details and charts
- Bid
 - Place a bid
- Wallet
 - Wallet overview
 - Depositing and withdrawing
- Claim
 - Claim tokens

Mockups

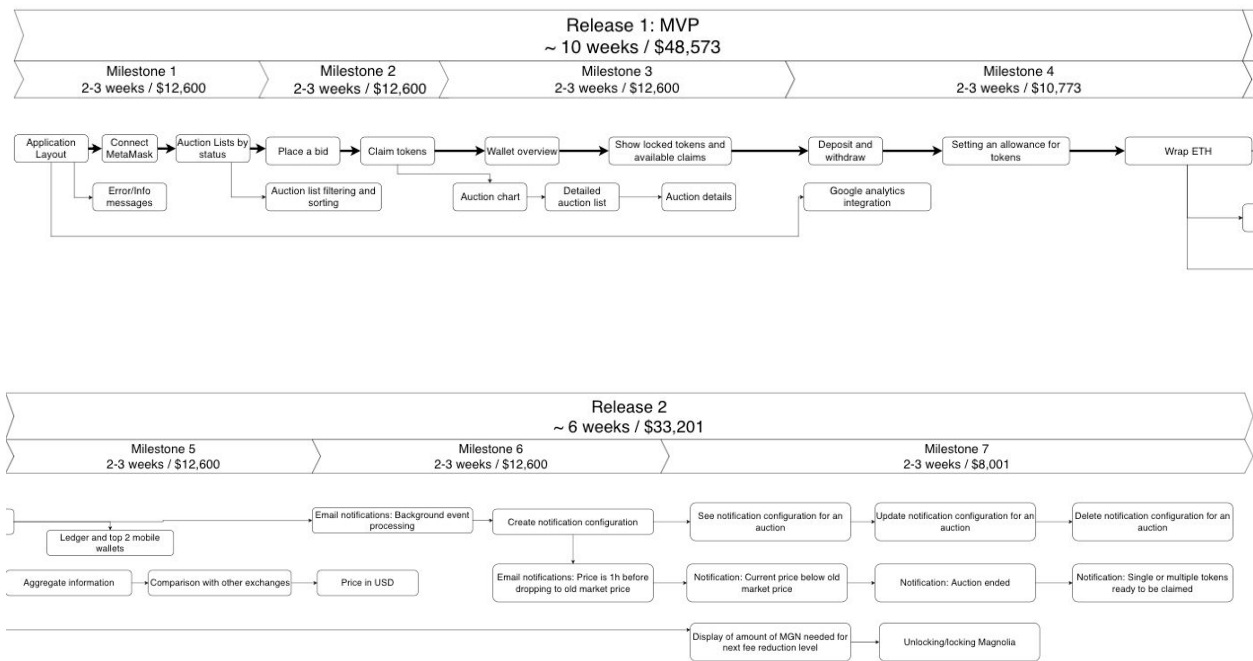
To be developed. A list of mockups with their corresponding descriptions can be found [here](#) in the **Mockup & Zeplin (desktop version)** and **Mockup & Zeplin (mobile version)** sections.

Example: Home page

The user already accepted the T&C.



Roadmap



The complete roadmap visualization file is [here](#).

Delivery approach, estimates and timeline

Release 1 - MVP

Milestone I	Deliverables	Estimate
<ol style="list-style-type: none"> Superior UX/UI. Focus on regular users. Connect MetaMask Auction Lists by status Error/Info messages 	<ol style="list-style-type: none"> UI designs Repositories setup. LGPL-3.0 Home UI Implementation Auction dashboard UI Implementation Integration with the DutchX protocol. Deployment on staging server. 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks.</p> <p>\$ 12,600 worth of DAI/ETH/GNO</p>
Milestone II	Deliverables	Estimate
<ol style="list-style-type: none"> Sidebar Auction list filtering and sorting Auction bid price calculation Ability to place a bid Ability to claim tokens after auction ends Pay bid fees with OWL 	<ol style="list-style-type: none"> Sidebar UI Implementation Filtering and sorting of the auction list Bidding UI Implementation Claiming UI Implementation Deployment on staging server. 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks.</p> <p>\$ 12,600 worth of DAI/ETH/GNO</p>
Milestone III	Deliverables	Estimate
<ol style="list-style-type: none"> Auction details Ability to see your wallet overview Show locked tokens and available claims Wallet operations (DutchX deposit and withdraw) 	<ol style="list-style-type: none"> Auction details UI implementation Claim tokens UI implementation Wallet UI implementation Deposit tokens UI implementation Withdraw tokens UI implementation Deployment on staging server 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks</p> <p>\$ 12,600 worth of DAI/ETH/GNO</p>
Milestone IV: MVP	Deliverables	Estimate
<ol style="list-style-type: none"> Setting an allowance for tokens Wrap ETH Google analytics integration 	<ol style="list-style-type: none"> Application deployed to IPFS + ENS. Deployment on staging and production servers 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks</p> <p>\$ 6,489 worth of DAI/ETH/GNO</p>

Release 2 (out of first grant scope of work)

Milestone V	Deliverables	Estimate
<ol style="list-style-type: none"> 1. Compatibility with Ledger wallet 2. Compatibility with top 2 mobile wallets 3. Aggregate information based on token/pairings for the past (day/week/month) 4. Price and volume comparison with other exchanges 	<ol style="list-style-type: none"> 1. Ability to connect Ledger and mobile wallets to the application 2. Aggregated information for all ended auctions in the form of charts, over time 3. Comparison of price and volume with other 2 exchanges 4. Deployment on staging and production servers 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks</p> <p>\$ 12,600 worth of DAI/ETH/GNO</p>
Milestone VI	Deliverables	Estimate
<ol style="list-style-type: none"> 1. Price in USD 2. Email notifications form 3. Background event processing 4. Price is 1h before dropping to old market price 	<ol style="list-style-type: none"> 1. Prices shown in USD on aggregated data charts 2. UI implementation of notification subscription 3. Backend processing of 1 hour to old price notification 4. Deployment on staging and production servers 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks</p> <p>\$ 12,600 worth of DAI/ETH/GNO</p>
Milestone VII	Deliverables	Estimate
<ol style="list-style-type: none"> 1. Current price below old market price 2. Auction ended 3. Single or multiple tokens ready to be claimed 4. See notification configuration for an auction 5. Update notification configuration for an auction 6. Delete notification configuration for an auction 7. Unlocking/locking Magnolia 8. Display of amount of MGN needed for next fee reduction level 	<ol style="list-style-type: none"> 1. Creation, updating and deleting notifications 2. Implementation of notifications for various events 3. UI implementation for locking/unlocking MGN 4. UI implementation of MGN fee levels 5. Deployment on staging and production servers 	<p>3 team members (Tech lead, Full Stack and Designer)</p> <p>-----</p> <p>Duration: 2 to 3 weeks</p> <p>\$ 8,001 worth of DAI/ETH/GNO</p>

Licensing - Open Source

The platform will be open source under the LGPL-3 license, unless a more suitable license is recommended by Gnosis core team.

Architecture

The application will be built using React and the most used libraries from the ecosystem such as redux, immutable, etc.

Besides coding best practices (unit tests, end to end tests, test coverage, static code analysis, etc) the project will be configured to run in Continuous Integration and Continuous Deployment pipelines. Semantic versioning will be applied and the build releases will also be deployed to IPFS so the front-end not only can be audited and used in a trustless manner but also making it web resistant.

During development a running version of the application will be accessible through a staging server, most likely hosted on Netlify.

Additional outcome towards mass developer adoption

As the team develops the solution, it can also create/improve a Javascript library for interacting with the DutctX open protocol. With it, developers will easily be able to interact with the Gnosis DutchX smart contracts as well as any token adhering to the token standards supported by the protocol without running into the barriers that a newcomer may find in the Ethereum development.

Functionality includes adding token pairs; generating, signing, filling and reverting orders, verifying an orders signature, setting or checking a users ERC20 token balance/allowance/deposits, claim funds and much more.

As an outcome the Gnosis team will get an open source fully documented Github repository with the library code applying best-practices such as code quality analysis, automated tests, coverage, semantic versioning, continuous integration and continuous documentation deployment.

This application can be considered a sample app for new developers to get onboarded. We can even go an extra-mile and create video demos, blog posts and host sample applications to play around on test nets.

Who is Protofire?

Protofire is a team of engineers which helps token-based protocols and developer platforms accelerate growth of their ecosystems. By providing hands-on coding and contributions, Protofire specializes in supercharging developer adoption and network usage. We ship applications, engineer elegant smart contracts, craft awesome developer tools (SDKs/APIs/sample apps), or simply improve performance/cost of oracles.

Protofire works exclusively with entrepreneurs who are builders of decentralized infrastructure protocols, applications and ecosystems.

<http://protofire.io>

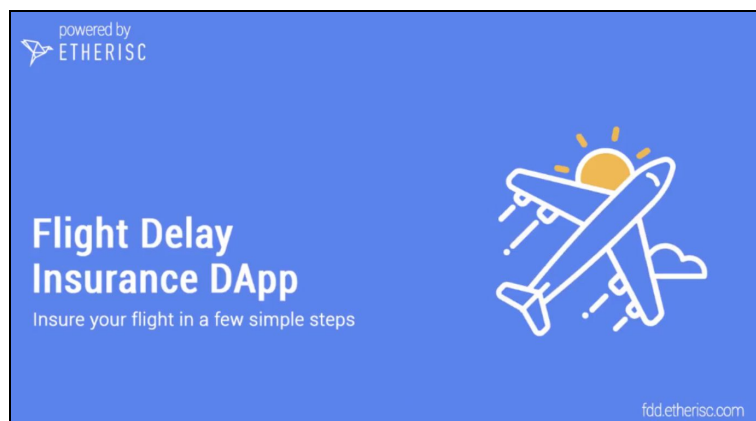
Our Work

We have extensive experience in developing protocols, tools and, dApps, from PoCs and prototypes to MVPs, etc. To learn more, please visit [our website](#).

DECENTRALIZED INSURANCE

Etherisc decentralized insurance protocol and Flight Delay dApp

<https://github.com/etherisc>



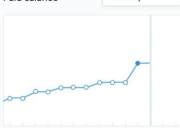
Payroll Add new employee

My payroll **Team payroll**

STATUS: **All** ROLE TYPE: **All** KEY STATS

NAME	START DATE	END DATE	ROLE	SALARY	TOTAL PAID THIS YEAR
Miles Davis	10/03/17	Active	CEO	\$80,000.00	\$16,234.98
John Coltrane	10/05/17	Active	COO	\$80,000.00	\$22,435.25
Joni Mitchell	10/09/17	Active	CTO	\$80,000.00	\$15,601.35
Jimi Hendrix	10/10/17	Active	Backend Developer	\$80,000.00	\$15,352.45
Nick Drake	10/12/17	Active	Frontend Developer	\$80,000.00	\$23,635.25
Terry Callier	10/12/17	Active	Design Lead	\$80,000.00	\$17,723.40
Ivanka Trump	10/18/17	10/1/18	Senior Barista	\$40,000.00	\$3124.24
Nick Drake	10/12/17	Active	Frontend Developer	\$80,000.00	\$23,635.25
Terry Callier	10/12/17	Active	Design Lead	\$80,000.00	\$17,723.40

Paid salaries Monthly



Total monthly salary **\$59,994.94**

Yearly salary summary

Salary paid this year **\$119,989.88**

Remaining salary this year **\$600,000.00**

Total year salary bill **\$719,939.28**

Cash reserves **\$103,204,230.23**

ARAGON PAYROLL

Payroll dApp for Aragon

<https://github.com/aragon/aragon-apps/tree/master/future-apps/payroll>


CDP ALERT

Monitoring and alerting system for MakerDAO DAI Stablecoin Collateralized Debt Positions (CDP)

<https://github.com/protofire/cdp-alert>

CDP Alert

Your CDPs




 Current Eth Price **\$120.906**

CDP ID	Borrowed DAI	Locked ETH	Liquidation Price	Collateral %
3782	36097.8518	794.2757	65.6624	276.36 %

< Previous Refresh CDPs Next >



Collateralization ratio under **200 %** or over **300 %** will trigger the alert

Email address...


Open Source  . Made with  by  **PROTOFIRE**


BORROW MONEY USING CRYPTOCURRENCY AS COLLATERAL

My Wallet 0x63d509f71527690df162e0d4e1883719f1e1a31080

234.00 DAI  0.7132 ETH  64.90

New CDP

ETH to lock up  set max min 0.01 ETH 0.00 USD

DAI to get  DAI



CDP liquidation would start if ETH goes below **68.32** (-50%). You can borrow up to ... DAI

CREATE CDP ▼ Advanced

My CDPs

CDP ID	Borrowed DAI	Locked ETH	Liquidation Price	Manage
135	50.000	0.134	usd51.785	Renew Flash Draw Withdraw Shut Give Bribe
189	8,970.897	38.343	usd 356.980	Renew Flash Draw Withdraw Shut Give Bribe
235	230.876	1.923	usd 390.893	Renew Flash Draw Withdraw Shut Give Bribe
267	376.000	2.567	usd49.123	Renew Flash Draw Withdraw Shut Give Bribe

usd **92.64** ETH price usd **1.02** DAI price **4,232** Total CDPs **55,078,586.000** Total DAI supply **1,634,464.000** Total ETH locked up

Open Source  Made with  by **PROTOFIRE**

<http://getdai.io>

Get a loan on MakerDAO DAI stablecoin by easily creating a CDP

<https://github.com/protofire/open-cdp>

Bzx.network

Smart contracts and libraries for

<http://bzx.network>

margin lending protocol, a protocol for next generation

(b)0x-standard relays

<https://github.com/bZxNetwork/bZx-monorepo>

bzx BUY BZRX BALANCES ORDERS BORROWING LENDING BOUNTIES

b Z x P o r t a l Version Alpha 0.3.6
Rinkeby Testnet
0xABC040...eBc3B4
Using MetaMask [change](#)
Gas Price: 12 GWei [change](#)

BALANCES

ETH to WETH



Your current ETH balance is **0 ETH**
 Your current WETH balance is **0 WETH**

You will need to WRAP your ETH to [WETH](#) to use it with bZx.
 You can UNWRAP your WETH at anytime to get your ETH back.


[WRAP ETH](#) [UNWRAP ETH](#)

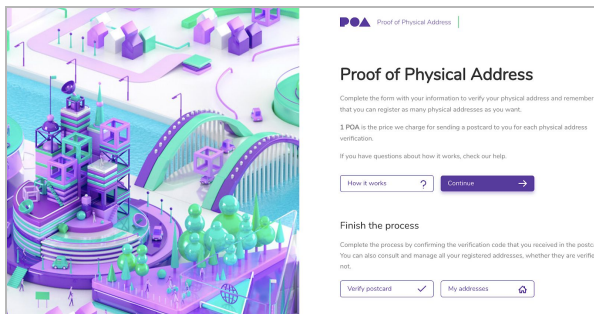
Tracked tokens

[REFRESH](#)

 Wrapped Ether	0 WETH	APPROVE SEND
 bZx Protocol Token	0 BZRX	APPROVE SEND

[Add new tracked token](#)

 Wrapped Ether



PROOF OF PHYSICAL ADDRESS

The dApp creates a link between an individual's physical address and an Ethereum network address (a wallet). Users enter a valid physical address into the dApp and a postcard is sent to the provided address. When the postcard arrives, a user enters a unique code to complete the process and verify the connection between the addresses.

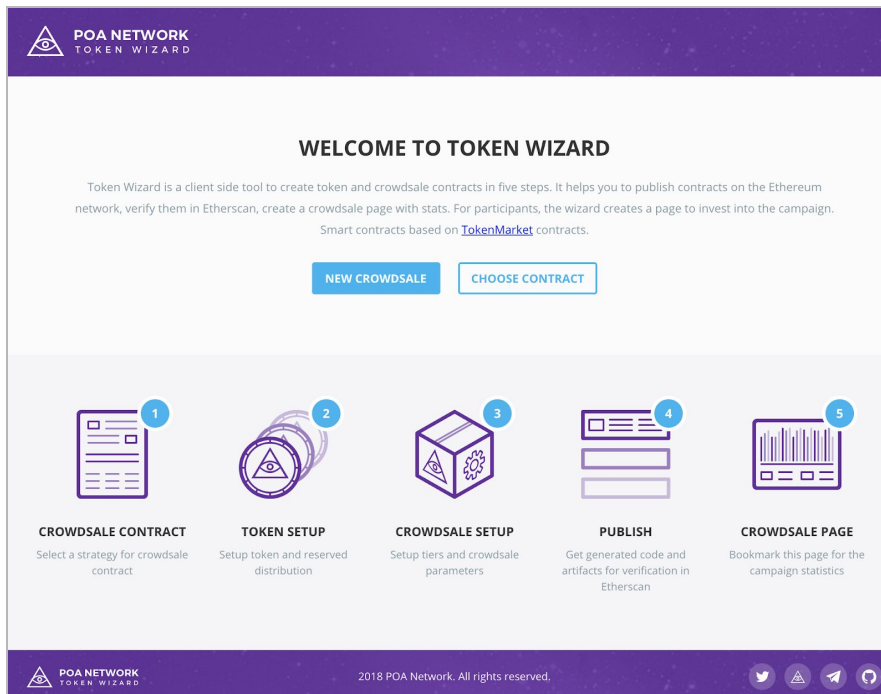
<https://github.com/poanetwork/poa-pop>

PROOF OF BANK ACCOUNT

The dApp establishes a secure link between a bank account number and an Ethereum compatible address (a wallet). Users must prove ownership of both accounts to create the connection. This dApp utilizes proven third-party tools to create a secure form of identity verification.

<https://github.com/poanetwork/poa-poba>





TOKEN WIZARD

The dApp is an application for crowdsale contract and token creation. The wizard presents a step-by-step process to create, deploy, and publish a public ICO in just a few minutes.

<https://github.com/poanetwork/token-wizard>

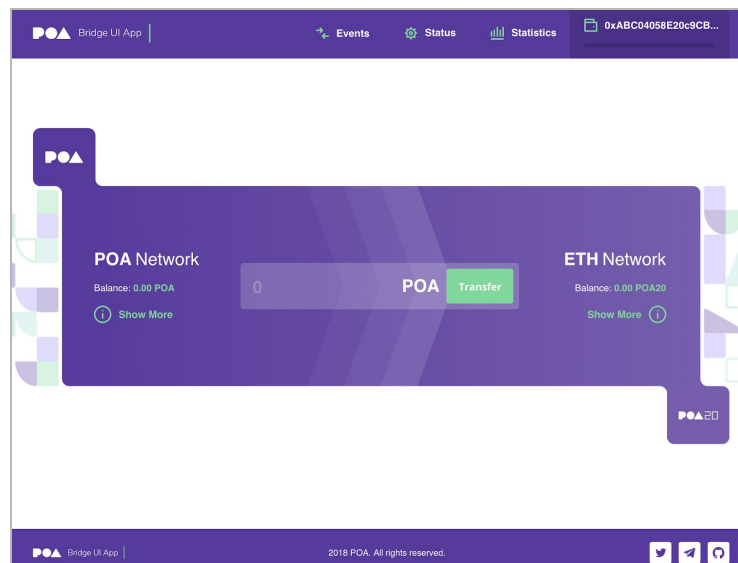
CROSS-CHAIN BRIDGE

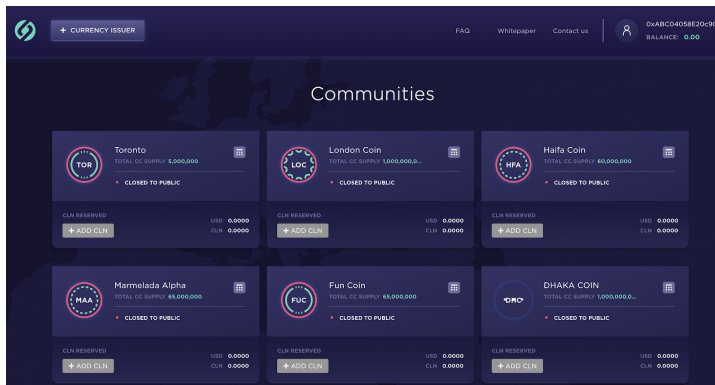
POA Bridge, an interoperability protocol between Ethereum networks for native to ERC20 and ERC20 to ERC20 cross chain transfers. Using the POA Bridge, projects can deploy their own instances of the POA Bridge and facilitate the transfer of ERC20 tokens between POA Network and Ethereum.

<https://github.com/poanetwork/token-bridge>

<https://github.com/poanetwork/bridge-ui>

<https://github.com/poanetwork/bridge-monitor>





<https://communities.cln.network>

The dApp for the Colu Network to manage communities. The solution turns financial transactions into new sources of wealth for a community, and by combining an open payment network with a crypto-based local community currency.

[ProtoFire.io](https://protofire.io) maintains and contributes to open-source projects like [Solhint](#) (a security and style guide validations for smart contract development) and [eth-cli](#) (a collection of CLI tools to simplify the Ethereum learning curve and development productivity).

ANNEX 1

December 18th, 2018

The scope was updated and the new estimate is [here](#).
This proposal document was updated accordingly.