



Final Report
Dec 2020

Author: Memento Blockchain Pte Ltd

Table of Contents	
Table of Contents	2
Executive Summary	3
Overview of the experiment	4
Our Proposed Solution	4
Initial assessment	4
Critical revision of the three solutions	5
Solution 1	5
Summary of the custody solution	6
The Dutch auction	8
Solution Architecture	9
System UI	11
The front-end is a web-based app that can run on any browser, allowing the system to be platform independent.	11
Fund Manager UI	12
Investor UI	12
User Interface Rebalancing Workflow	13
Initial fund configuration	13
Stakeholder: fund manager	13
Investor mints the fixed-proportion fund tokens	15
Stakeholder: investor	15
Managed fund creation	17
Stakeholder: fund manager	17
Investor mints the managed fund tokens	18
Stakeholder: investor	18
Second fund configuration	20
Stakeholder: fund manager	20
Propose the Dutch Auction	21
Stakeholder: fund manager	21
Investor checks the Dutch auction	22
Stakeholder: investor	22
Start the Dutch Auction	23
Stakeholder: fund manager	23
Participate in the Dutch Auction	24
Stakeholder: market makers	24

End the Dutch Auction	25
Stakeholder: fund manager	25
Investor checks the rebalanced fund	26
Stakeholder: investor	26
Limitations and future works	26

Executive Summary

Digital assets such as security tokens continue to disrupt the market and there is growing interest in the traditional financial industry to experiment in this space. Today, digital assets are everywhere we look. Every single currency, asset, real estate, and even arts or wines has the potential for tokenization. As such, the term digital asset will continue to

encompass a growing number of items. For now, tokenization appears to be the path towards the future.

The digitalization of value — digital assets — is a growing trend and in this process, existing financial assets, or real assets are digitized on the blockchain with the advantage of removing intermediaries in their distribution, lowering transactional cost and also addressing the issue of counterparty risk.

The world of digital assets — value which is represented by tokens issued on a public blockchain that can then be distributed in the same way that other cryptocurrencies are — creates more opportunity in this increasingly digital world. More and more, traditional intermediaries and new entrants into the financial services industry are realizing that the potential of blockchain, its widespread distribution of financial products, is the benefit of liquidity.

Liquidity is very crucial in financial markets; the lack of it is very costly and very problematic for both the issuers and the holders of the financial assets, the blockchain technology presents another way to distribute and get your product out there to those that want it.

Effectively enabling and making distribution of financial products fairer, cheaper, more cost effective and therefore, enhancing the liquidity profile of what typically has been very illiquid assets.

Our mission is to transform the traditional asset management and lower the barrier to entry for capital and talents. Our technology stack can be used to create, launch and invest in funds with any tokenized digital assets and can be customized to the needs of large financial institutions.

With this Proof of concept we want to demonstrate that traditional asset management can be converted into digital using the blockchain, making the industry more efficient, more compliant and accessible to everyone. While there are some limitations in the existing technology the path and the speed of innovation will overcome any issues that arise in the financial industry.

Overview of the experiment

Our Proposed Solution

Initial assessment

In this POC we want to investigate how it is possible to create a new type of fund tokens that give the possibility to the fund manager to periodically change the allocation of the

component tokens. We define the *rebalancing problem* as following: *given that a number of component tokens are stored in a smart-custodian contract, how can the fund manager change the current fund allocation without having the possibility to take full, or partial, control of the component tokens themselves?*

In the rebalancing problem there is a sub-problem that stands out right away. Whichever way we solve it, since the cost of creating any token is marginal, the fund manager could create a fake token, of which he completely controls the supply, and rebalance 100% of the fund into this token. While this is a real problem we have devised a very simple solution: we limit the tokens that can take part in a rebalancing event. This can be accomplished, for example, by restricting the universe of tokens to a white list of vetted tokens.

In this POC we explored three different possibilities to solve the rebalancing problem:

1. Using centralized exchanges. Possibly give control to the fund manager to trade the component tokens without having himself the possibility to take the tokens out of the exchange account
2. Using decentralized exchanges. The fund manager can sign trade transactions that are sent to decentralized exchanges. However the tokens are taken and sent back to directly to the custodian smart contract
3. By introducing a third-party type of users: the arbitrageurs, or market makers. These market makers would help the rebalancing by purchasing and, respectively, selling directly to the smart custodian the component tokens that are in surplus and, respectively, in demand. These users would make a small profit for each transaction, however ensuring that the component token custody stays with the smart custodian.

Note that in all cases the portfolio has some extra components that should be sold in exchange of the new components. Therefore any solution should allow us to exchange fund components

Critical revision of the three solutions

We have determined that the best way going forward was to use solution 3, as we are about to explain.

Solution 1

In the proposed solution 1 the fund manager would follow the following procedure:

- take the extra components out from the smart custodian into his own wallet;
- send these components to a centralized exchange;
- on the centralized exchange, swap the extra components for the new components;
- take out the new components from the centralized exchange;
- send the new components to the smart custodian so that the fund has the new allocation

This solution has the great advantage that when the swap of the extra components for the new ones is done on a centralized exchange, it can be done fastly, with minimal slippage and transaction fees. This is because centralized exchanges have high liquidity. On the other hand this solution has a number of issues. The first one is that the whole

procedure is very time consuming, as taking tokens in and out from centralized exchanges can take a long time (hours, or even days). The second problem is that the fund manager needs permission to take out components from the fund itself. This poses a security threat and totally renders the digital custody solution useless. For these reasons we discarded this solution.

Solution 2

In this proposed solution, the fund manager sends the extra components directly from the smart custodian to the decentralized exchange. At first this solution seems to be the most natural as there is no need to take out the extra component from the smart custodian. However there are at least two technical issues. The first problem is that, at the time of writing (namely December 2020), decentralized exchanges have very little liquidity. This means that if the fund has a reasonable size, the exchange will not have enough tokens to perform the swap. The other reason is that, currently, decentralized exchanges have very high slippages and it is not unheard of that people pay up to 3% for a single transaction. For these technical reasons we have decided to discard solution 2.

Solution 3

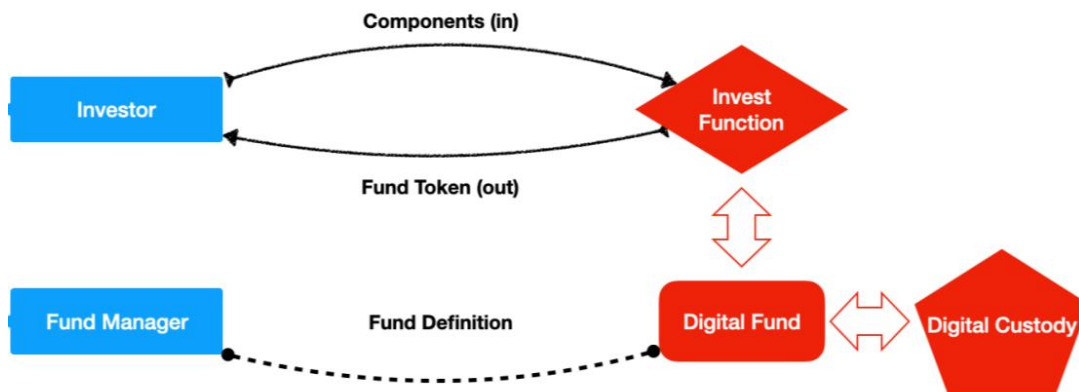
We think that solution 3, while technically harder to implement, allows the fund manager to exchange the extra components for the new ones with reasonable costs and without giving the fund manager a total control of the underlying components. In this solution there is a rebalance function in the smart custodian that allows the exchange of the extra components for the new ones. A new category of users, the market makers, can take advantage of this function to make a small-arbitrage profit in exchange for the burden to help with the portfolio rebalance. More details on this solution are given in later paragraphs.

Summary of the custody solution

In order to understand how *Solution 3* may work, we first need to look at the results obtained by our previous POC. Indeed we have shown how the creation of smart-custody contracts allowed us to generate digital funds with a fixed proportion of constituent components. We summarize here that solution because it already contains the seeds of how to proceed to create a managed fund. There are three main operations that can be performed on the fixed-allocation digital funds:

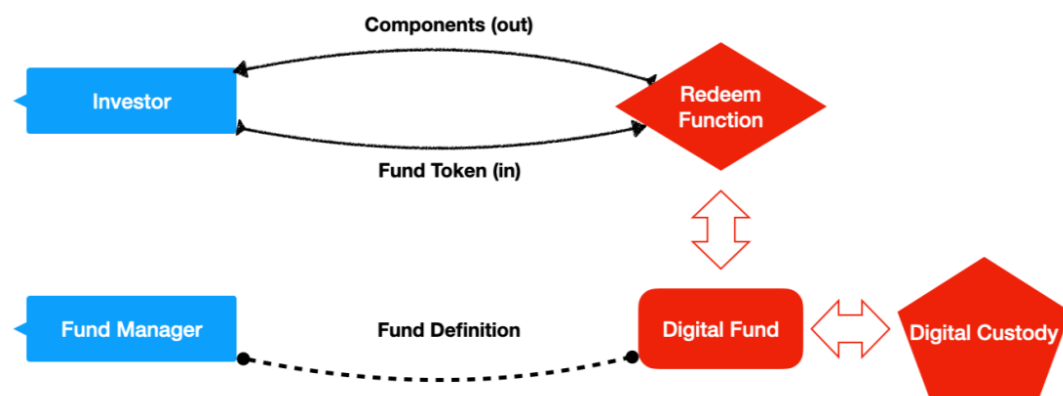
1. Creation. The fund manager can create a fund by specifying what are the exact proportion of the component tokens
2. Investment. An investor can send to the fund components in the exact proportion specified by the fund manager to obtain a corresponding number of fund tokens
3. Redemption. An investor that owns a certain number of tokens of a specific fund can send them back to the smart contract to obtain the component tokens in the proportion specified by the fund manager

The following chart outlines the fund creation and the fund investment process



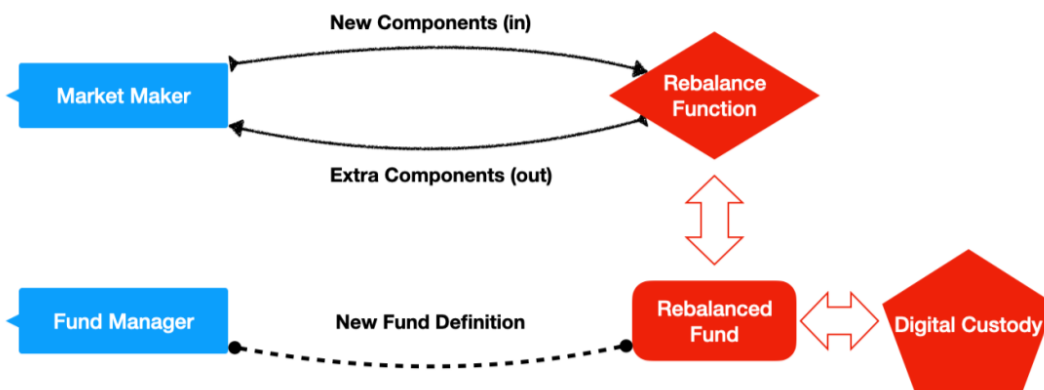
In the chart above we show with blue squares the fund manager and the investor, similarly we denote in red the blockchain components. The dashed line indicates that the digital fund was created by the fund manager. Then we show that the investor can receive a fund token by providing the components in the proportions specified by the fund manager.

The converse operation, i.e. obtaining the fund components by providing the fund token is described in the chart below.



For completeness we show again that the fund was created according to the exact proportion of the components, as specified by the fund manager. As already described in the final report of our previous POC, we have already successfully implemented the functionalities described above.

As seen in the two examples above it is possible to create a smart-contract function (technically a *method*) both to upload and download components in predetermined proportions to the Digital Custody. We can combine these two behaviours into a single smart-contract function, namely the *Rebalance Function*, that takes in the new components and *spits out* the extra components. In the following chart show the schematic of this function:



In order to make this trick work we need a new type of user: the market maker. When the fund manager provides a new fund definition the system computes what are the new components from the difference between what the new-fund components and what is already in the digital custody. Similarly the system computes what the extra components are as the tokens that the fund manager is ready to get rid of.

Typically the value of the extra components is a few basis points higher than the value of the new components so that the market makers are incentivized to perform the exchange. The operation of rebalancing is usually limited to a short time, typically of the order of a few hours.

The Dutch auction

In creating our solution we have found another problem: from the time when the fund manager proposes a new allocation to the time it is executed the market value of the exchange components might change.

As a consequence either of two cases might happen:

1. The component exchange is very convenient for the market makers. In this case it will happen almost instantly, however at a high cost for the fund investors
2. The component exchange is not convenient at all for the market makers. In this case it will not happen.

In order to eliminate this problem we propose that the rebalancing, i.e. the exchange of components, is allowed using a Dutch auction. In this Dutch auction, there is a limited time in which the new components can be exchanged for the old ones. For example this time could be 10 minutes or 1 hour. The price at which the old components are sold in favor of the new ones starts high (above market price) and ends low (below market price) at the end of the auction.

In this way there is an optimal time between the start and the end of the auction in which the price of the old component is both low enough, so that the market makers can purchase them, but not too low so that the fund investors do not lose a lot of money.

Solution Architecture

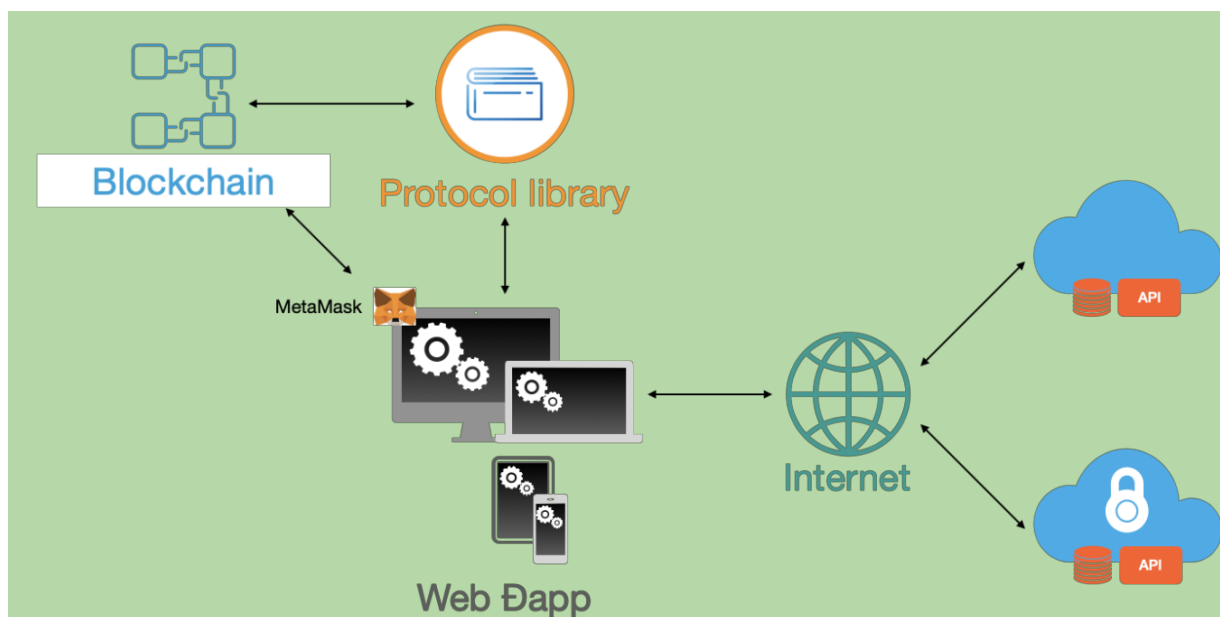
For the front-end/back-end we used cloud service to achieve:

- Agility: the IT team does not bother about server provisioning and maintenance and can concentrate on the core system development
- Elasticity: enjoy instant scale up/down in accordance with the needs of the business, reducing costs and improving the ability to meet the users' demands
- Velocity: easily deploy the application in multiple physical locations within minutes, allowing to provide a lower latency and better experience to the users

We are committed to achieve the following key features:

- Modular
- Measurable
- Reusable
- Robust
- Debuggable
- Extensible
- Secure
- Maintainable
- Lightweight

The layered (n-tier) high level architecture is depicted in the following picture:



High level architecture

The key parts are:

Protocol library (based on the Javascript SDKs)

A set of JS modules to manage the interactions with the blockchain (creation of a fund, issuance of a fund, etc.)

Web Dapp

The front-end is a web-based interface, developed using [Vue.JS](#) (progressive framework for building user interfaces), [Semantic UI](#) (development framework that helps create responsive layouts) and [Axios](#) (promise based HTTP client for the browser and Node, allowing to send asynchronous HTTP requests to REST endpoints and perform CRUD operations)



WELCOME TO THE DEXTF DAPP.

Fund Manager



to your ACCOUNT

don't have an account yet? **SIGN UP**

Investor



CONNECT

By using the DEXTF DAPP you acknowledge having read the **Disclaimer** and agree with the **Terms and Conditions**

Cloud services

Amazon Web Services (AWS) services like [Cognito](#) (secure user sign-up, sign-in, and access control), [DynamoDB](#) (no-sql database), [Lambda Functions](#) (server-side business logic), [API Gateway](#) (RESTful APIs) and [Step Functions](#) (serverless workflows)

System UI

The front-end is a web-based app that can run on any browser, allowing the system to be platform independent.

We invested a good amount of time in designing the User Experience (UX) so that the actions of the various users (fund managers and investors) are as simple as possible.

We implemented the following pages:

- Welcome page for the user to login or register to the service
- Main landing page, called the “Command Centre”, with 2 main areas:
 - “Manage Funds”, for to Fund Managers to manage their funds
 - “Invest/Redeem Funds”, for the Investors to invest into the publicly available funds

Each fund is represented by a card with relevant information like name, issuing company, description, composition, etc...

XTF.UUDBC
 DeFi Blue Chip Fund

109.46 USD

GROWTH

0x66E5...21f9

Launched on 09/12/2020

The fund provides long-only exposure to some of leading protocol tokens in decentralized finance.

FUND AUM

1,094.57 USD

AAVE Aave		25.00%
SNX Synthetix Network		25.00%
UNI Uniswap		25.00%

MINT

Fund Manager UI

The “Manage Funds” section shows all the funds that the Fund Manager created and manages. A step-by-step wizard will guide the Fund Manager through the creation of a new fund.

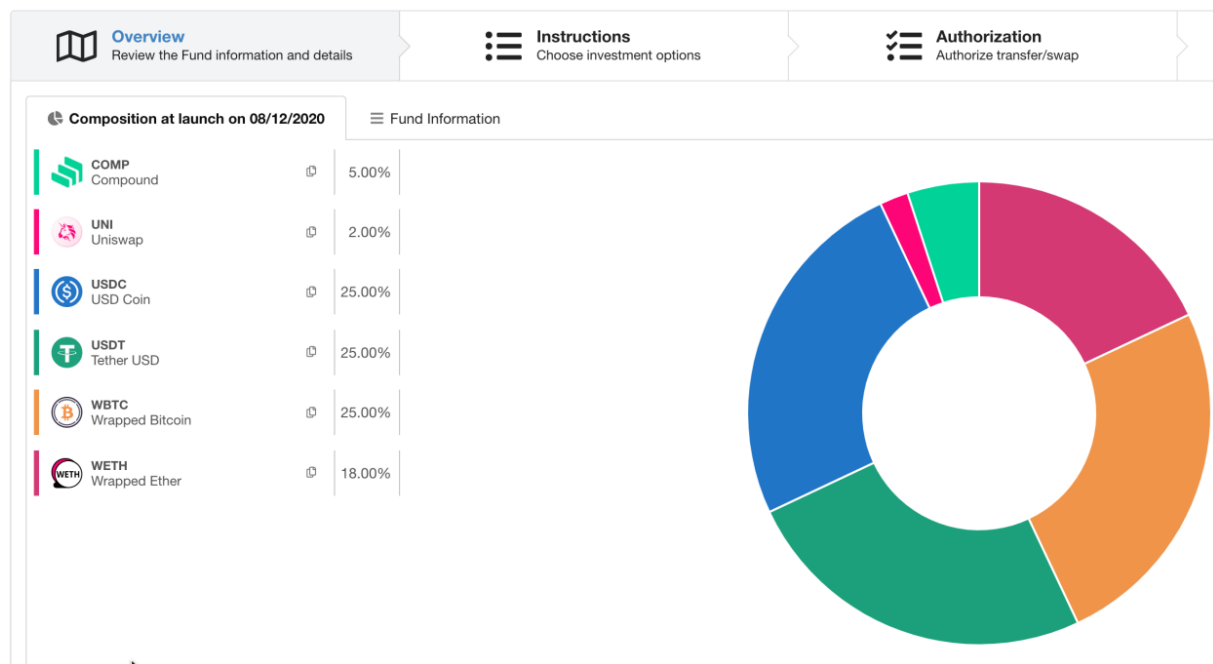
Once the Fund Manager is ready to launch the newly created fund he can press a Launch button, that will trigger a call to a specific function of the Protocol library and the creation of the Smart Contract representing the new fund.

Investor UI

The “Invest/Redeem Funds” section shows all the publicly available funds. The Investor can perform two operations: Invest in a fund and Redeem fund.

An Invest button starts a step-by-step wizard to drive the user through the process to invest into a fund. When the Investor confirms the operation a call to a specific function of the Protocol library is triggered; this will start the blockchain transaction to complete the investment.

Invest in Plass Fund (XTF.UUUETH)



The reverse operation (redemption of the fund) is initiated with a Redeem button, that starts a step-by-step wizard to guide the user through the process to redeem a fund. When the Investor confirms the operation a call to a specific function of the Protocol library is triggered; this will start the blockchain transaction to complete the redemption.

User Interface Rebalancing Workflow

We consider here a complete example of rebalancing starting from a given initial and ending with another final allocation. While in the reported example given here, in order to simplify the discussion, we only use two assets, in a production environment any number of assets can be used. Also each of the screenshots shown are part of an actual working software solution that does connect to a real blockchain. Hence all the examples are actually working and could be, in principle, used for real-life trading.

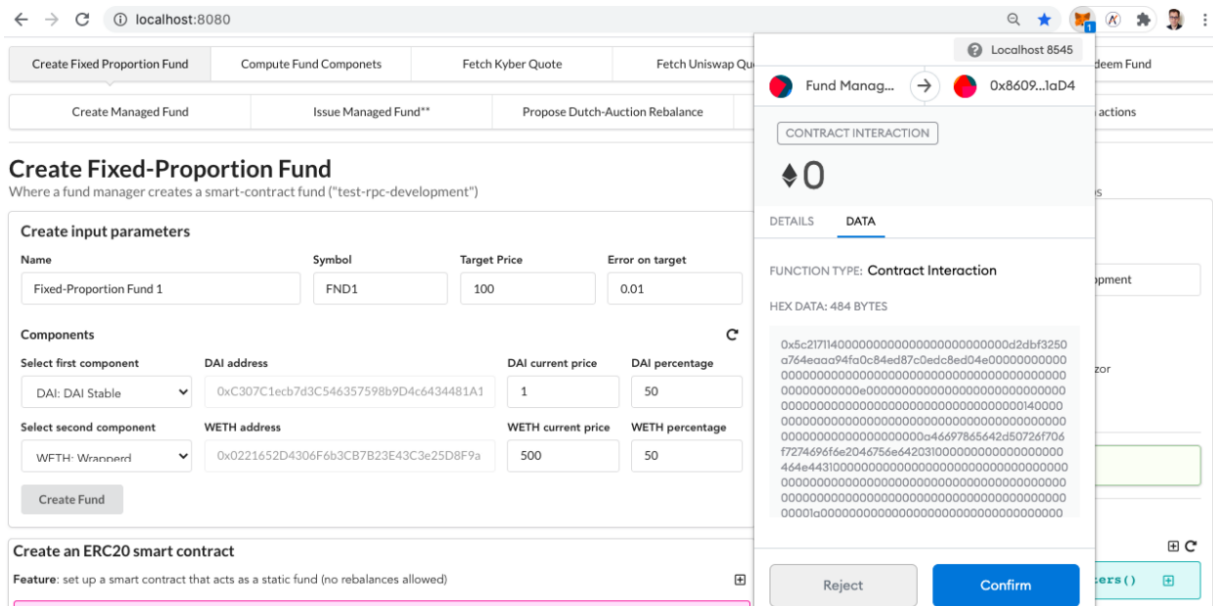
Initial fund configuration

Stakeholder: fund manager

We consider a fund manager that wants to create a fund, which we will call FND1, with with only two tokens, namely the stable coin DAI and the ERC20 representation of ether, WETH

- 50% DAI, assuming a current price of 1.00
- 50% WETH, assuming a current price of 500.00

The fund manager then will start by simply creating a fixed-proportion fund FND1 using the appropriate tab and sign the transaction.

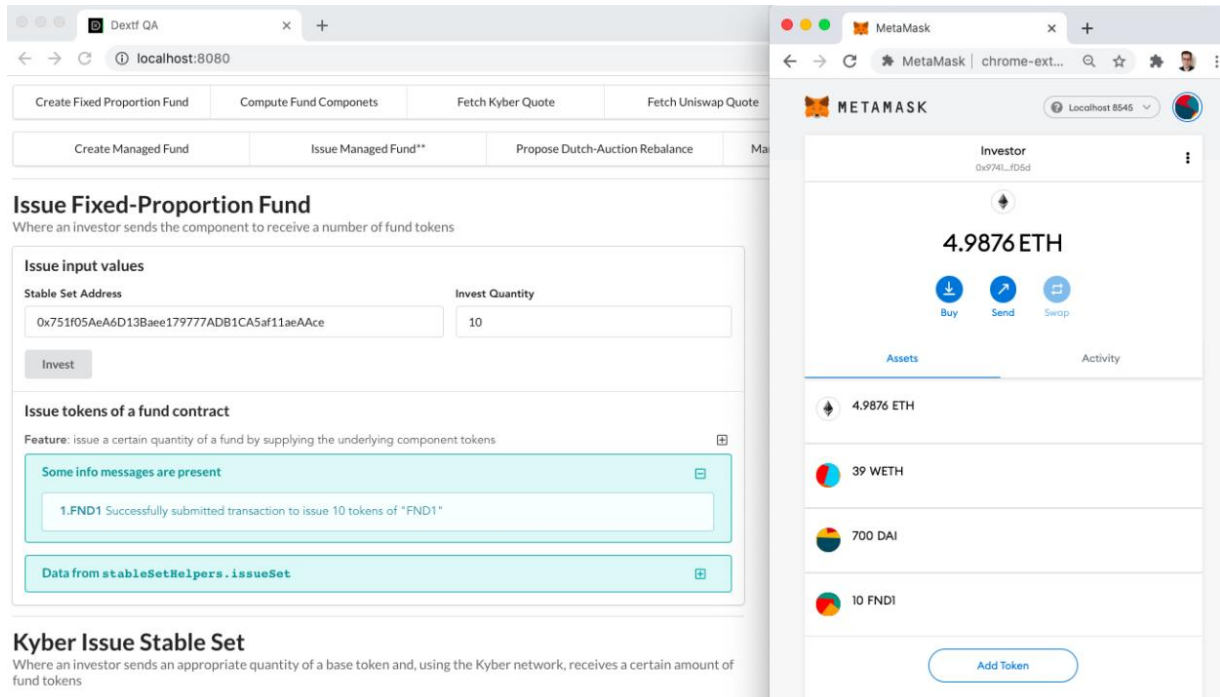


In the above screenshot we show the act of signing the transaction to create the FND1 fund, using the popular plugin MetaMask. After the transaction has been approved by the blockchain we receive the fund address:

0x751f05AeA6D13Bae179777ADB1CA5af11aeAAce

Symbol	Quantity	Quantity units	Allowance	Allowance units
DAI	500	5000000000000000000000	500	5000000000000000000000
WETH	1	10000000000000000000000	1	10000000000000000000000

He can then proceed to approve and mint 10 tokens of SWA.FND1, by trading in 500 DAI and 1 WETH



In the above screenshot the investor mints 10 FND1 tokens. His token holdings are then automatically updated in the MetaMask window.

Managed fund creation

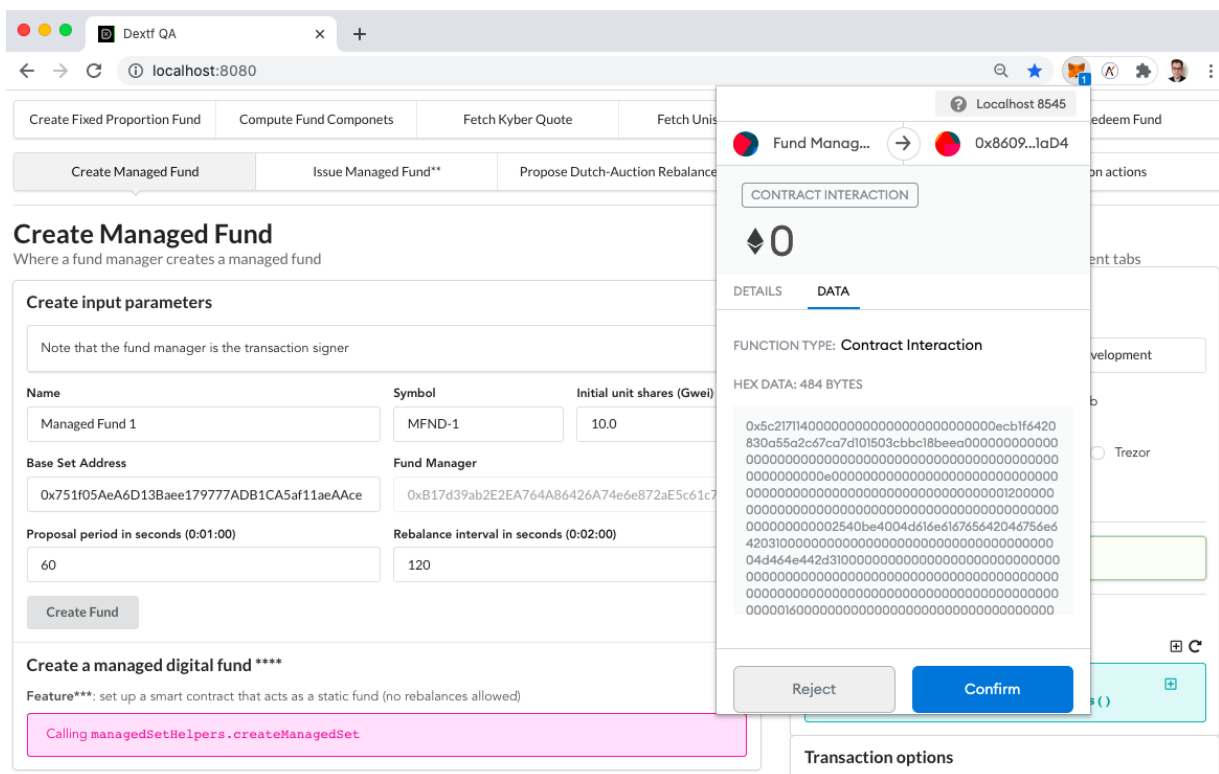
Stakeholder: fund manager

As the fund manager wants to be able to change the allocation of his fund, he creates a wrapper, i.e. another tradable fund, around the initial fixed-proportion fund FND1.

In other words, the fund manager creates a wrapper token, called MFND-1, with the following properties:

- There is only 1 component: FND1
- The component is held in proportion 1 to 1
- In the fund creation already decides some of the rebalancing parameters

The managed fund MFND-1 is now in the Default state



The above screenshot shows the transaction used to create the managed fund called MFND-1. After the transaction has been approved by the blockchain we receive the fund address: 0x8132f8B2726C9045394D2173AFB1a53Cda11578a

Investor mints the managed fund tokens

Stakeholder: investor

Since the managed fund was created with MFND-1 in proportion 1-to-1 with respect to FND1, the investor can now trade his 10 tokens of FND1 for 10 MFND-1 tokens.

The left screenshot shows a web application interface for 'Compute Fund Components'. It features a navigation bar with tabs: 'Create Fixed Proportion Fund', 'Compute Fund Components', 'Fetch Kyber Quote', and 'Fetch Uniswap Qu'. Below the navigation bar, there are buttons for 'Create Managed Fund', 'Issue Managed Fund**', and 'Propose Dutch-Auction Rebalance'. The main section is titled 'Compute Fund Components' with a subtitle 'Where an investor computes the components of a fixed-proportion fund'. It contains a form for 'Compute-amounts input values' with fields for 'Investor' (a dropdown menu), 'Stable Set Address' (a text input), and 'Compute Quantity' (a text input). A 'Compute Amounts' button is below the form. A teal box displays the text 'Data from stableSetHelpers.computeComponentAmounts'. Below this is a 'Summary of component quantities' table.

Symbol	Quantity	Quantity units	Allowance	Allowance units
FND1	10	10000000000000000000	10	10000000000000000000

The right screenshot shows a MetaMask wallet interface for an investor with address 0x9741...fD5d. The wallet balance is 4.9857 ETH. Below the balance, there are buttons for 'Buy', 'Send', and 'Swap'. The 'Assets' tab is selected, showing a list of assets: 4.9857 ETH, 39 WETH, 700 DAI, 10 FND1, and 0 MFND-1.

In the above screenshots we can see the components of MFND-1. Also we notice that the investor, at the moment, has 10 FND1 and 0 MFND-1 .

The investor can now simply mint 10 MFND-1 tokens by trading in 10 FND1 tokens:

The image shows two side-by-side screenshots. The left screenshot is of a web application titled 'Dextf QA' running on 'localhost:8080'. It features a navigation bar with links: 'Create Fixed Proportion Fund', 'Compute Fund Componets', 'Fetch Kyber Quote', 'Fetch Uniswap Qu', 'Create Managed Fund', 'Issue Managed Fund**', and 'Propose Dutch-Auction Rebalance'. The main content area is titled 'Issue Fixed-Proportion Fund' with a subtitle 'Where an investor sends the component to receive a number of fund tokens'. It contains an 'Issue input values' section with a 'Stable Set Address' field (0x8132f8B2726C9045394D2173AFB1a53Cda11578a) and an 'Invest Quantity' field (10), followed by an 'Invest' button. Below this is an 'Issue tokens of a fund contract' section with a feature description and a message box stating '1.MFND-1 Successfully submitted transaction to issue 10 tokens of "MFND-1"'. The right screenshot is of a MetaMask wallet interface for an 'Investor' (0x9741...fD6d). It shows a balance of 4.9818 ETH and a list of assets: 4.9818 ETH, 39 WETH, 700 DAI, 0 FND1, and 10 MFND-1.

Issue Fixed-Proportion Fund
Where an investor sends the component to receive a number of fund tokens

Issue input values

Stable Set Address: 0x8132f8B2726C9045394D2173AFB1a53Cda11578a

Invest Quantity: 10

Invest

Issue tokens of a fund contract

Feature: issue a certain quantity of a fund by supplying the underlying component tokens

Some info messages are present

1.MFND-1 Successfully submitted transaction to issue 10 tokens of "MFND-1"

Data from `stableSetHelpers.issueSet`

Kyber Issue Stable Set
Where an investor sends an appropriate quantity of a base token and, using the Kyber network, receives a certain amount of fund tokens

METAMASK Localhost 8545

Investor
0x9741...fD6d

4.9818 ETH

Buy Send Swap

Assets Activity

- 4.9818 ETH
- 39 WETH
- 700 DAI
- 0 FND1
- 10 MFND-1

Second fund configuration

Stakeholder: fund manager

At this point the fund manager wants to rebalance the fund into a new allocation. In order to perform this operation he creates a new fixed-proportion fund, which we will call FND2, with the following allocation:

- 60% DAI, assuming a current price of 1.00
- 40% WETH, assuming a current price of 500.00

The screenshot displays the 'Create Fixed-Proportion Fund' interface in the Dextf QA application. The form is filled with the following parameters:

- Create input parameters:**
 - Name: Fixed.Proportion.Fund 2
 - Symbol: FND2
 - Target Price: 100
 - Error on target: 0.01
- Components:**
 - Select first component: DAI: DAI Stable (DAI address: 0xC307C1ecb7d3C546357598b9D4c64344, DAI current price: 1, DAI percentage: 60)
 - Select second component: WETH (WETH address: 0x0221652D4306F6b3CB7B23E43C3e25D, WETH current price: 500, WETH percentage: 40)

A modal window titled 'CONTRACT INTERACTION' is open, showing the transaction details. The function type is 'Contract Interaction' and the hex data is 484 BYTES. The transaction is confirmed.

Transaction options:

- Reject
- Confirm

After the transaction has been approved by the blockchain we receive the fund address: 0xb25719C4C71475905B0C4BAd38eB34E14a826a1d

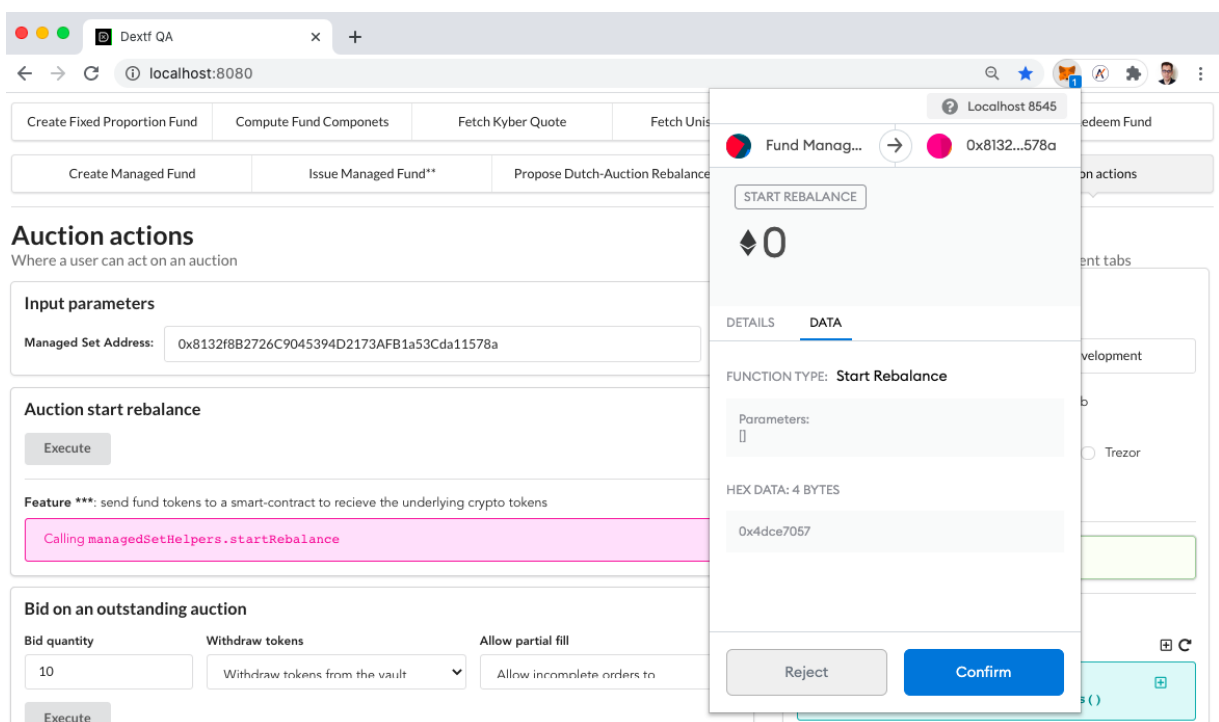
After the smart auction is confirmed by the blockchain the managed fund MFND-1 turns to the Proposal state

Note that the investor *does not* have to mint FND2 tokens.

Start the Dutch Auction

Stakeholder: fund manager

After the proposal period, as specified in the managed fund smart contract, has passed the fund manager, or anybody else with access to the blockchain, can officially start the Dutch auction by sending the appropriate transaction to the blockchain.



After the start-auction transaction has been mined by the blockchain, the managed fund MFND-1 enters the Rebalance state. During the Rebalance state there cannot be any issue or redemption of the MFND-1 fund.

Participate in the Dutch Auction

Stakeholder: market makers

The market maker observes the ratio between SWA.FND1 and SWA.FND2 and decides when to step in.

With ratio 0.95 we have, for 10 tokens

- Out SWA.FND1 i.e. 500 DAI & 1 WETH
- In SWA.FND2/0.95 i.e. $600/0.95$ DAI & $0.8/0.95$ WETH (632 DAI & 0.842 WETH)

Since only the in/out balance is actually exchanged

- In 132 DAI and out 0.158 WETH; MM receives 1 WETH for 835 DAI sent

With ratio 1.05 we have, for 10 tokens

- Out SWA.FND1 i.e. 500 DAI & 1 WETH
- In SWA.FND2/1.05 i.e. $600/1.05$ DAI & $0.8/1.05$ WETH (571 DAI & 0.762 WETH)

Since only the in/out balance is actually exchanged

- In 71 DAI and out 0.238 WETH; MM receives 1 WETH for 298 DAI sent

Starting with a ratio of 0.95 and ending with a ratio of 1.05, the market makers are able to exchange

- At the beginning of the auction receives 1 WETH for 835 DAI sent
- At the end of the auction receives 1 WETH for 298 DAI sent

There will be an intermediate time in which a market maker can make money, but not so much to be front run by another market maker

In our little demo we assume that the Dutch auctions ends fairly and that the exchange of tokens happens when the ratio is exactly 1.0.

End the Dutch Auction

Stakeholder: fund manager

After the auction time has elapsed, or when all tokens have been exchanged, the fund manager has the following possibilities:

- Declare the auction a success and set the managed fund into the Default state. The component is now SWA.FND2
- Declare the auction a complete failure and set the managed fund into the Default state. The component is still SWA.FND1
- Declare the partial failure and set the managed fund into the Drawdown state. There is not component and the investors can redeem the portion of their funds

Here we show a screenshot of the possible auction actions related to a given managed fund.

Auction actions

Where a user can act on an auction

Input parameters
Managed Set Address:

Auction start rebalance

Null results provided

Bid on an outstanding auction

Bid quantity	Withdraw tokens	Allow partial fill
<input type="text" value="10"/>	<input type="text" value="Withdraw tokens from the vault"/> ▼	<input type="text" value="Allow incomplete orders to execute"/> ▼

Null results provided

Settle successful auction

Null results provided

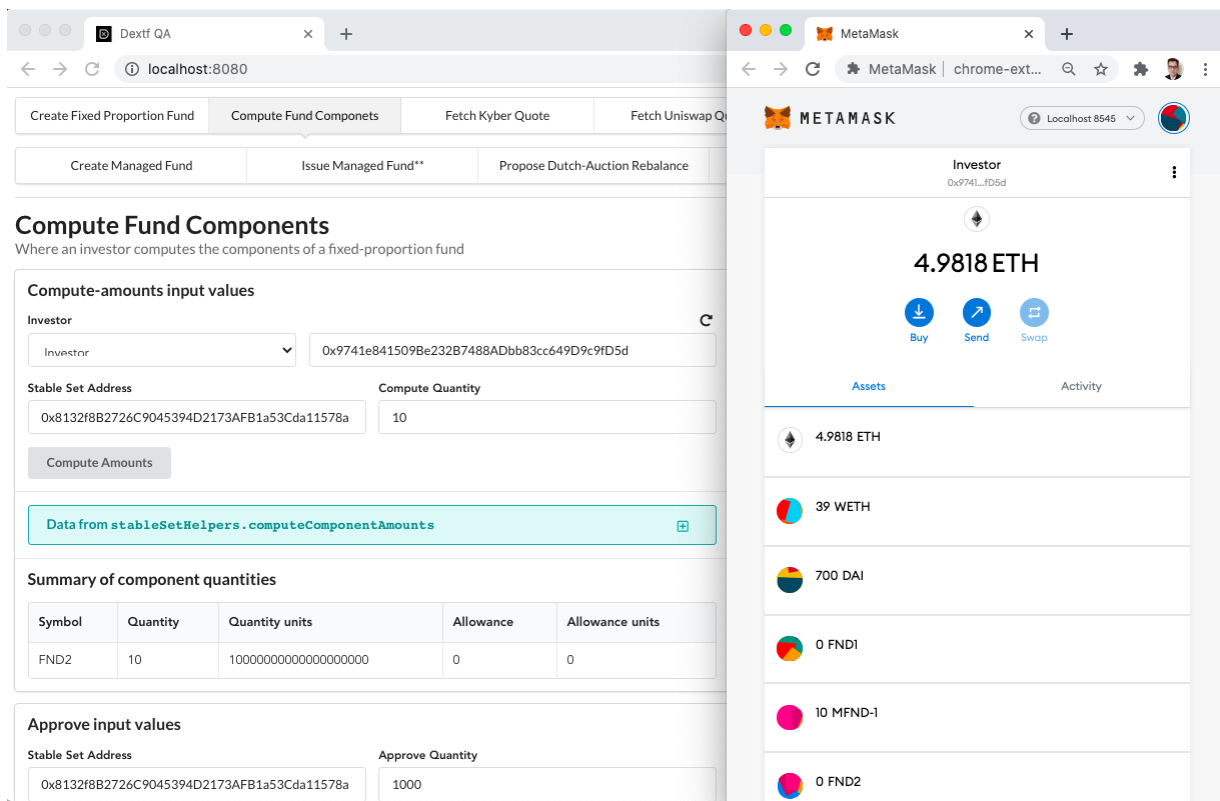
End failed auction

Null results provided

Investor checks the rebalanced fund

Stakeholder: investor

Assuming that the fund manager settled the auction successfully, the managed fund has now a new single component: FND2



The screenshot above shows the new composition of MFND-1 which now has FND2 instead of FND1. Notice that, in principle, since the value of FND1 and FND2 might not be the same, the proportion of MFND-1 tokens to FND2 tokens might be different from 1.

Limitations and future works

The structure of smart contracts described in this work allows the creation of funds where the fund manager defines the asset allocation and under no circumstances he will have control of the funds' tokens, whether they are representing the newly minted digital funds or the tokens representing the balance of each investor custodized by the Smart Custody contract. As a result, the completion of this POC enabled us to introduce and build a working solution, if compared to the complex financial products issued in the market today. With the current state of the protocol, we are able not only to issue passive investments based on short-term strategies but also active managed funds which require periodic rebalancing of the underlying components. Furthermore, we recognize that in order to realize the ideal but achievable goal of distinguishing Singapore as a trendsetter in the digital asset management industry, we need to extensively develop on top of the inefficiencies that corrode investors' value and stifle asset managers' performances within the traditional AM framework. Our plan into 2021 and beyond is to work with market participants to understand their needs to accelerate the innovation and contribute to the creation of a regulatory framework that can help financial institutions to enter the digital asset management space in a controlled and compliant way.

While this proof of concept has been developed on the Ethereum blockchain there are some limitations that might prevent this platform to be adopted as an end-all solution especially for enterprise adoption. The primary problem with Ethereum is scalability. Transactions are still very slow, as Ethereum's public blockchain can only process roughly 20 transactions per second (TPS) compared to other newer blockchains. Enterprises require a very high throughput of transactions, and Ethereum can not yet offer that on its public mainnet as such we are exploring other blockchains like Algorand that are more efficient and built for the financial industry. The Algorand blockchain is quite unique in terms of security and ease of use and thanks to its atomic transfers allows for secure and immediate transaction settlement for multiparty transactions directly built on Layer 1.

Going forward we will also work to involve market makers and exchanges (decentralized and non) for our rebalancing function to get access to best execution (best rates and minimal slippage).

We are extremely thankful for being awarded the MAS FSTI POC grant, and it has enabled us to complete this first backbone infrastructure that prepares us for our next challenge. We are also grateful for the feedback from the evaluation panel, who has taken time out to review the proposal for this proof of concept.

