

Security Token Offering Platform Functionality

This document includes a description of user stories for the Security Token Offering Platform and describes roles and actions of both users and administrators in the system. A detailed description of user stories with acceptance criteria can be found in the full specification, [TokenD functionality in User Stories \(EN\)](#).

Note: TokenD is a white-label framework which is used as an underlying architectural solution for the described STO platform to have it built fast (6 weeks) and for a price generally decreased by a factor of 3x. Brief description of the terms and functionality can be found in the following [two-pager document](#).

Roles

The set of roles available in the system is configured during system deployment. By default, the following roles are available:

- Platform owner. *Note: technically this role can perform other roles such as the role of a platform administrator*
- Administrators
 - Platform administrator
- Users
 - Unverified
 - Verified
 - Corporate

User and administrator roles can be configured depending on the system's goals and business processes. For example, the platform administrator role can be split into and be performed by different administrators:

- KYC/AML administrator
- Fees administrator
- Limits administrator
- Trade administrator
- Opportunity administrator



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- Security administrator
- Issuance administrator

In this case, each administrator role will only have part of the super administrator's abilities. User roles can also have extended configuration depending on the business processes.

Requirements

- Registration and log-in
- Deposit and withdrawal
- Tokenized assets lifecycle management
- Transactions and operation management
- Identity control and management
- Account access and management
- Application requirements
- Ledger synchronization

User Stories

Note: in the following examples, TokenD is being used as a brand of a platform, but that's only for demo purposes. In reality, TokenD is not the platform but rather the framework with ready-made toolsets to build your own branded platform.


Registration and log-in requirements



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Sign In

Email

Password 

Sign In

Don't have an account? [Register now](#)
Forgot your password? [Recover it](#)

User

- As a **user**, I want to **sign up to the platform** by entering an email address and password.
- As a **user**, I want to **confirm registration** by email.
- As a **user**, I want to **sign in to the platform** by entering an email address and password.

Administrator

- As an **administrator**, I want to be able to **sign up to the platform** with the ability to confirm the process using 2FA.
- As an **administrator**, I want to be able to **sign in to the platform** by entering an email address, password, and confirmation **through 2FA code**.



Deposit and withdrawal requirements

Deposit

Verified user

- As a **verified user**, I want to be able to **select asset to deposit** from the list of those available for deposit.
- As a **verified user**, I want to be able to **view asset deposit address** both **as text** and **as QR code**.
- As a **verified user**, I want to be able to **deposit cryptocurrencies and digital currencies** to the platform **from my accounts / addresses of other accounting systems**.
- As a **verified user**, I want to be able to **deposit assets of Stellar** to the platform **using my Stellar account(s)**
- As a **verified user**, I want to be able to **deposit ERC20 assets of Ethereum** to the platform **using my Ethereum account(s)**.
- As a **verified user**, I want to be able to **deposit fiat currencies** onto the platform **using a credit card or bank transfer**.

Corporate user

- As a **corporate user**, I want to be able to **select an asset to deposit** from the list of ones available for depositing.
- As a **corporate user**, I want to be able to **view asset deposit address** both **as text** and **as QR code**.
- As a **corporate user**, I want to be able to **deposit cryptocurrencies and digital currencies** on the platform **from my accounts / my addresses in other accounting systems**.



TOKEND

- As a **corporate user**, I want to be able to **deposit assets of Stellar** to the platform **using my Stellar account(s)**
- As a **corporate user**, I want to be able to **deposit ERC20 assets of Ethereum** to the platform **using my Ethereum account(s)**.
- As a **corporate user**, I want to be able to **deposit fiat currencies** onto the platform **using a credit card or bank transfer**.

Withdraw

Verified user

- As a **verified user**, I want to be able to **withdraw cryptocurrencies and digital currencies** on the platform **to external address / account**.
- As a **verified user**, I want to be able to **withdraw applicable assets** from the platform to **Stellar account**.
- As a **verified user**, I want to be able to **withdraw ERC20 assets** from the platform to **Ethereum account**.
- As a **verified user**, I want to be able to **conduct the withdrawal of fiat currencies** from the platform **to a credit card or bank account**.
- As **verified user**, I want to be able to **manage the withdrawal details of cryptocurrencies, digital currencies, fiat currencies** as well as to **access information related to withdrawals**.

Corporate user

- As a **corporate user**, I want to be able to **withdraw cryptocurrencies and digital currencies** on the platform **to external address / account**.
- As a **corporate user**, I want to be able to **withdraw applicable assets** from the platform to **Stellar account**.
- As a **corporate user**, I want to be able to **withdraw ERC20 assets** from the platform to **Ethereum account**.



- As a **corporate user**, I want to be able to **conduct the withdrawal of fiat currencies** from the platform **to a credit card or bank account**.
- As **corporate user**, I want to be able to **manage the withdrawal details of cryptocurrencies, digital currencies, fiat currencies** as well as to **access information related to withdrawals**.

Transactions and operation management requirements

User

- As a **user**, I want to be able to **view the details of transactions associated with my account**.

Movements

Aalice@mail.com
General account

Show: Swiss franc (CHF) ▾

Withdraw

Deposit

Send

Type	Operation	Date	Amount
Charged	Payment	June 24, 2019 at 18:05	-1 CHF
Matched	Sale closed	May 20, 2019 at 18:04	-200,000 CHF
Locked	Investment	May 20, 2019 at 18:03	-200,000 CHF
Issued	Issuance/deposit requested	May 20, 2019 at 18:01	1,000,000 CHF

Verified user

- As a **verified user**, I want to be able to **view** the transaction details **about outgoing payments**.
- As a **verified user**, I want to be able to **view** the transaction details **about incoming payments**..
- As a **verified user**, I want to be able to **view** the details **about deposit transactions**.



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- As a **verified user**, I want to be able to **view** the details **about withdrawal transactions**.
- As a **verified user**, I want to be able to **view the details of transactions regarding asset selling**.
- As a **verified user**, I want to be able to **view the details of transactions regarding asset selling**.

Corporate user

- As a **corporate user**, I want to be able to view the **history of transactions associated with a specific token offering campaign**.

Administrator

Fee requirements for administrator

- As a **fees administrator**, I want to be able to **manage details of fees related to asset trading**.

Fee management

Scope	Type	Direction
Global	Payment	outgoing
Asset		
USD		

Lower bound	Upper bound	Percent fee	Fixed fee		
0.000000	100.000000	1.000000	0.000000	Update	Delete
100.000001	10000.000000	2.000000	0.000000	Update	Delete

Tokenized assets lifecycle management requirements

Tokenised asset creation

Corporate user

- As a **corporate user**, I want to be able to **create tokenized assets** on the platform.
- As a **corporate user**, I want to be able to **manage asset pre-issuance details**.
- As a **corporate user**, I want to be able to **upload pre-issuance files** to the platform.
- As a **corporate user**, I want to be able to **issue tokenized assets** to the platform.
- As a **corporate user**, I want to be able to **configure parameters of asset issued**.

Create asset

1. Asset information

2. Advanced

Asset name

Asset code


Max issuance amount

Type

☐ Transferable

☐ Withdrawable

Asset icon



 Drag a file here or click to browse

JPG or PNG, no less than 120x120 px

Next

Create asset

1. Asset information


2. Advanced

☐ I do not want to make additional issuance later

[Learn more about pre-issuance](#)

Pre-issuance asset signer ID

Initial pre-issued amount



 Drag a file here or click to browse

JPG, PNG, PDF, max 5 mb.

Create request



TOKEND

- As a **corporate user**, I want to be able to **set up a token offering campaign**.
- As a **corporate user**, I want to be able to **create whitelisted token offering campaigns**, and **invite specific users** to participate in them.
- As a **corporate user**, I want to be able to **setup lock period** for assets distributed during **token offering campaigns**.
- As a **corporate user**, I want to be able to **manage token offering campaign parameters**.
- As a **corporate user**, I want to be able to **configure price of assets sold during token offering campaign in the selected assets**.

Administrator

Pre-issuance requirements for administrator

- As an **administrator**, I want to be able to **view and process requests for creating tokined assets**.

Preissuance Requests

Asset			
All			
Amount	Asset	Status	
100.000000	PIA	Approved	<div>Reject</div> <div>Accept</div>
More			

Issuance requirements for administrator

- As an **administrator**, I want to be able to **create tokenized assets** on the platform.
- As an **administrator**, I want to be able to **setup a system asset** that can be deposited from or withdrawn to **Stellar account(s)**.



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- As an **administrator**, I want to be able to **setup a system asset** that can be deposited from or withdrawn to **Ethereum account(s) as ERC20 token**.
- As an **administrator**, I want to be able to **update configuration of a specific asset**.
- As an **administrator**, I want to be able to **view and process requests for issuance**.

Issuance

Receiver (email or address)

Reference

Amount

Asset
BTC

Available: 20,999,800.000000 BTC

Issue

HistoryRequests

State
Approved

Asset

Value

Date

Requestor

1,000.000000 USD

11 Mar 2019 at 06:35:25

GBA4EX43M25UPV4WIE6RRMQOFTWXZZ...

100,000.000000 USD

11 Mar 2019 at 06:54:16

GBA4EX43M25UPV4WIE6RRMQOFTWXZZ...

100.000000 EUR

11 Mar 2019 at 06:55:28

GBA4EX43M25UPV4WIE6RRMQOFTWXZZ...

Tokenized assets transfer

Verified user



TOKEND

- As a **verified user**, I want to be able to **transfer tokenized assets to other platform users** without intermediaries.
- As a **verified user**, I want to be able to **get tokenized assets from other platform users** without intermediaries.
- As a **verified user**, I want to be able to **fully configure details of asset transfers**

The screenshot shows a 'Send' modal window with a close button (X) in the top right corner. The form contains the following fields and elements:

- Asset:** A dropdown menu currently showing 'Swiss franc (CHF)' with a downward arrow icon. Below it, a small text label reads 'Balance is 799999.000000 CHF.'
- Amount:** A text input field with an upward arrow icon to its right.
- Recipient email or account ID:** A text input field.
- Add note:** A large text area for adding a note, with a character count '0/250' in the bottom right corner.
- Continue:** A blue button at the bottom of the form.

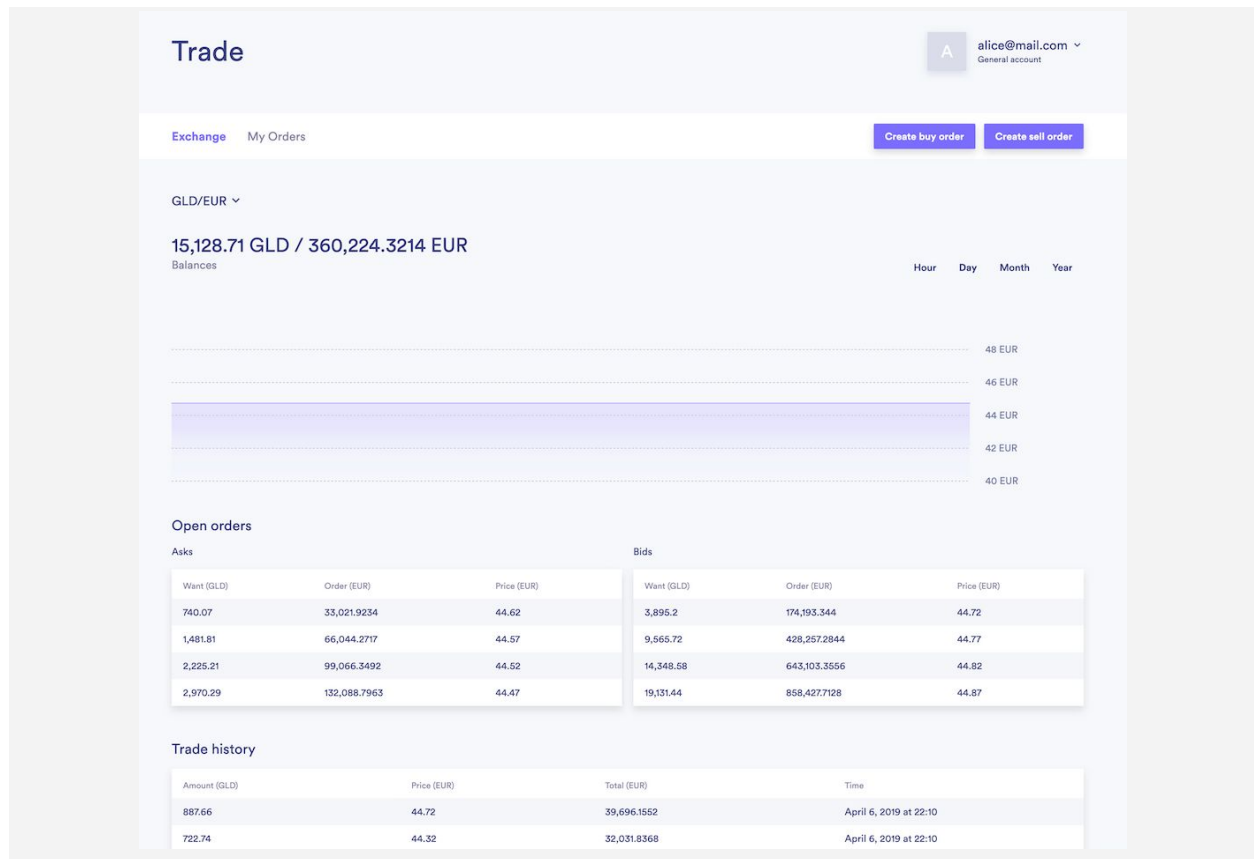
- As a **verified user**, I want to be able to **invest** in token offering campaigns.
- As a **verified user**, I want to be able to **participate in whitelisted token offering campaigns** if I am invited by its initiator.
- As a **verified user**, I want to be able to **trade tokenized assets** received via campaign on secondary market.

Corporate user



- As a **corporate user**, I want to be able to **transfer tokenized assets to other platform users** without intermediaries.
- As a **corporate user**, I want to be able to **get tokenized assets from other platform users** without intermediaries.
- As a **corporate user**, I want to be able to **fully configure details of asset transfers**.

Tokenized assets trading



Verified user

- As a **verified user**, I want to be able to **exchange one tokenized asset for another** without the risk of losing the first one.
- As a **verified user**, I want to be able to **trade tokenized assets** within the platform.
- As a **verified user**, I want to be able to **create orders** for buying and selling assets.



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- As a **verified user**, I want to be able to **manage orders**.
- As a **verified user**, I want to be able to **sell / buy tokenized assets for cryptocurrencies and digital currencies**.
- As a **verified user**, I want to be able to **buy / sell tokenized assets for fiat currency**.



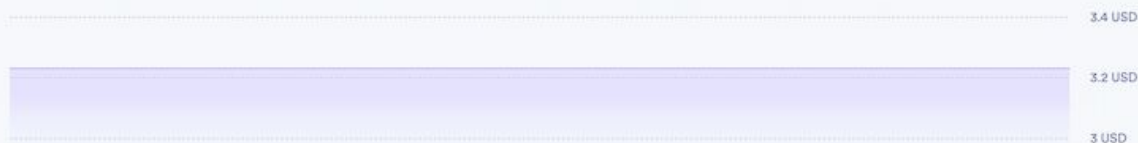
Trade

alice@mail.com
General account[Exchange](#) [My Orders](#)[Create buy order](#)[Create sell order](#)

GLD/USD ▾

15,128.71 GLD / 37,551.884 USD

Balances

[Hour](#) [Day](#) [Month](#) [Year](#)

Open orders

Asks

Want (GLD)	Order (USD)	Price (USD)
17,151.8	55,228.796	3.22
34,410.46	110,457.5766	3.21
51,776.99	165,686.368	3.2
69,252.41	220,915.1879	3.19

Bids

Want (GLD)	Order (USD)	Price (USD)
4,738.47	15,352.6428	3.24
9,476.95	30,800.0875	3.25
14,215.43	46,342.3018	3.26
18,953.91	61,979.2857	3.27

Trade history

Amount (GLD)	Price (USD)	Total (USD)	Time
20,454.26	3.23	66,067.2598	April 6, 2019 at 22:10
13,636.17	3.22	43,908.4674	April 6, 2019 at 22:10
6,818.08	3.21	21,886.0368	April 6, 2019 at 22:10
34,468.67	3.15	108,576.3105	April 6, 2019 at 22:10
17,179.79	3.16	54,288.1364	April 6, 2019 at 22:09
7,014.83	3.19	22,377.3077	April 6, 2019 at 22:09
3,507.41	3.18	11,153.5638	April 6, 2019 at 22:09
8,846.47	3.16	27,954.8452	April 6, 2019 at 22:09
4,423.23	3.15	13,933.1745	April 6, 2019 at 22:08
19,792.54	3.12	61,752.7248	April 6, 2019 at 22:08
13,195.03	3.11	41,036.5433	April 6, 2019 at 22:08
6,597.51	3.1	20,452.281	April 6, 2019 at 22:07

[More](#)**Corporate user**



TOKEND

- As a **corporate user**, I want to be able to **exchange one tokenized asset for another** without the risk of losing the first one.
- As a **corporate user**, I want to be able **to trade tokenized assets** within the platform.
- As a **corporate user**, I want to be able to **create orders** for buying and selling assets.
- As a **corporate user**, I want to be able to **manage orders**.
- As a **corporate user**, I want to be able to **sell / buy tokenized assets for cryptocurrencies and digital currencies**.
- As a **corporate user**, I want to be able to **buy / sell tokenized assets for fiat currency**.

Trade



corporate@mail.com
Corporate account

Exchange My Orders

Create buy order

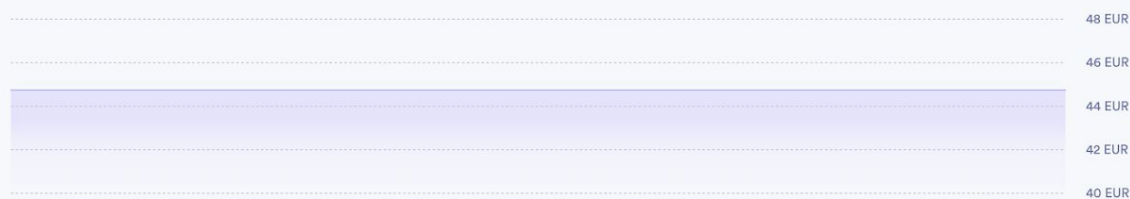
Create sell order

GLD/EUR

17.41 GLD / 0 EUR

Balances

Hour Day Month Year



Open orders

Asks

Bids

Want (GLD)	Order (EUR)	Price (EUR)	Want (GLD)	Order (EUR)	Price (EUR)
740.07	33,021.9234	44.62	3,895.2	174,193.344	44.72
1,481.81	66,044.2717	44.57	9,565.72	428,257.2844	44.77
2,225.21	99,066.3492	44.52	14,348.58	643,103.3556	44.82
2,970.29	132,088.7963	44.47	19,131.44	858,427.7128	44.87

Trade history

Amount (GLD)	Price (EUR)	Total (EUR)	Time
887.66	44.72	39,696.1552	April 6, 2019 at 22:10
722.74	44.32	32,031.8368	April 6, 2019 at 22:10
518.75	44.42	23,042.875	April 6, 2019 at 22:10
1,116.62	44.42	49,600.2604	April 6, 2019 at 22:10
642.82	44.33	28,496.2106	April 6, 2019 at 22:09
1,496.52	44.12	66,026.4624	April 6, 2019 at 22:09
2,468.04	43.92	108,396.3168	April 6, 2019 at 22:09
1,072.4	44.12	47,314.288	April 6, 2019 at 22:08
1,643.49	43.97	72,264.2553	April 6, 2019 at 22:08
820.81	44.02	36,132.0562	April 6, 2019 at 22:08
393.02	43.75	17,194.625	April 6, 2019 at 22:08
1,572.08	43.75	68,778.5	April 6, 2019 at 22:08

More



Identity requirements

User

- As a **user**, I want to be able to **provide my KYC data to change my account permissions**.
- As a **user**, I want to be able to **current state** of my **request for confirming KYC data**.

Unverified user

- As an **unverified user**, I want to be able to **provide my KYC data to verify them and become verified user**.
- As an **unverified user**, I want to be able to **provide my KYC data to verify them and become corporate user**.

Verified user

- As a **verified user**, I want to be able to change (update) my KYC data.

Corporate user

- As **corporate user**, I want to be able to view and update my KYC data.

Account management and access requirements

Platform owner

- As a **platform owner**, I want to be able to **perform the initial configuration** of the platform by **changing the initialization scripts**, namely: to configure the roles of users and administrators of the platform, system assets, trading pairs of assets.
- As a **platform owner**, I want to **have access to all transactions** conducted on the platform.



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- As a **platform owner**, I want to be able to **setup and manage a** hot wallet for assets from the **Stellar network**.
- As a **platform owner**, I want to be able to **setup and manage a** hot wallet for ERC20 assets from the **Ethereum network**.

User (Unverified, Verified, Corporate)

- As a **user**, I want to **have access to all transactions** associated with my account.

Movements

A

alice@mail.com

General account

Show: Digital Gold (GLD) ▾

Withdraw

Deposit

Send

Type	Operation	Date	Amount	
Matched	Offer	April 6, 2019 at 15:47	5,251.87 GLD	▾
Matched	Offer	April 6, 2019 at 15:45	3,923.33 GLD	▾
Matched	Offer	April 6, 2019 at 15:28	786.1 GLD	▾
Matched	Offer	April 6, 2019 at 15:18	2,605.25 GLD	▾
Matched	Offer	April 6, 2019 at 15:18	-2,597.41 GLD	▾
Matched	Offer	April 6, 2019 at 15:18	-214.07 GLD	▾
Matched	Offer	April 6, 2019 at 15:17	-2,108.61 GLD	▾
Matched	Offer	April 6, 2019 at 15:17	-2,565.37 GLD	▾
Matched	Offer	April 6, 2019 at 15:17	588.94 GLD	▾
Matched	Offer	April 6, 2019 at 15:17	-1,924.02 GLD	▾

More

- As a **user**, I want to be able to **view other users' account identifiers**.

Movements







A **alice@mail.com** ▾
General account

Show: Swiss franc (CHF) ▾

Withdraw

Deposit

Send

Type	Operation	Date	Amount	
 Charged	Payment	June 24, 2019 at 18:05	-1 CHF	^
Type	Charged			
Operation	Payment			
Date	June 24, 2019 at 18:05			
Amount	1 CHF			
Source pays for destination	false			
Subject				
Payment sender	alice@mail.com 			
Payment recipient	bob@mail.com 			
 Matched	Sale closed	May 20, 2019 at 18:04	-200,000 CHF	▾
 Locked	Investment	May 20, 2019 at 18:03	-200,000 CHF	▾
 Issued	Issuance/deposit requested	May 20, 2019 at 18:01	1,000,000 CHF	▾

- As a **user**, I want to be able to **change the password** of my account.

Change password

×

Current password

👁

New password

👁

Confirm new password

👁

Change password

- As a **user**, I want to be able to **restore access to my account** in case its password is lost.




- As a **user**, I want to be able to **configure two-factor authentication** to increase account security.

Enable 2FA

×

Scan the QR with your 2FA app. We recommend Google Authenticator for most users. It doesn't require an internet connection or phone service to use, and is more secure than SMS due to being offline and local to your device.



Or manually set the secret code

Secret

WQVBLC2DPFIFEXIV

📋

And enter your 2FA code to continue

2FA code

Enable

- As a **user**, I want to be able to **view the balances** of my account.
- As a **user**, I want **to view the balances of my assets** as a catalog.

Assets

Explore assets **My balances**

C
CHF
Swiss franc
Balance: 799,999 CHF

E
EUR
EUR
Balance: 360,224.3214 EUR

R
RBL
Red Balloon
Balance: 1,000 RBL

U
USD
USD
Balance: 37,551.884 USD

T
TDT
TokenD Token
Balance: 99,999 TDT

P
PBP
PBP
Balance: 13,700 PBP

B
BTC
BTC
Balance: 0 BTC

B
BST
Blocksport Token
Balance: 0 BST


Asset details

E **EUR**
EUR

Balance	360,224.3214 EUR
Maximum	1,000,000,000 EUR
Issued	1,101,124 EUR
Available	998,898,876 EUR
Transferable	Yes
Withdrawable	Yes
Deposit method	Non-depositable
Asset type	Requires verification
Terms	No terms
Owner	Master

- As a **user**, I want to be able to **view trading history** as an asset ratio diagram.

Trade


alice@mail.com ▾
General account

Exchange My Orders

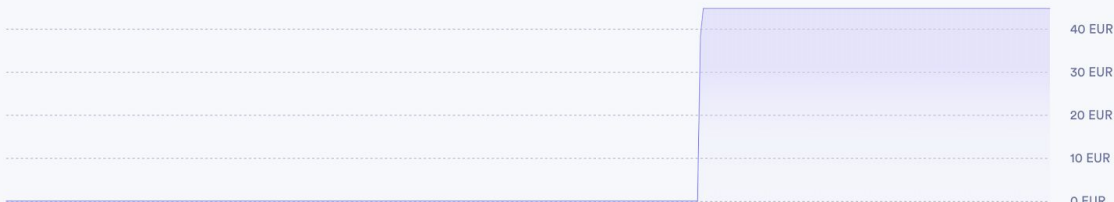
Create buy order Create sell order

GLD/EUR ▾

15,128.71 GLD / 360,224.3214 EUR

Balances

Hour Day Month Year



40 EUR
30 EUR
20 EUR
10 EUR
0 EUR



- As a **user**, I want to be able to **view the details of the fees details** for my account.
- As a **user**, I want to be able to **view the fees details for a particular asset** on the platform.

Fees

A **alice@mail.com** ▾
General account

Asset: Digital Gold (GLD) ▾

Type	Direction	Fixed	Percent	Lower bound	Upper bound
Payment	Incoming	0 GLD	2%	0 GLD	100 GLD
Payment	Incoming	0 GLD	1%	100.000001 GLD	1,000 GLD
Payment	Incoming	2 GLD	0%	1,000.000001 GLD	9,223,372,036,854.775807 GLD
Payment	Outgoing	0.01 GLD	2%	0 GLD	100 GLD
Payment	Outgoing	0 GLD	1%	100.000001 GLD	1,000 GLD
Payment	Outgoing	1 GLD	0%	1,000.000001 GLD	9,223,372,036,854.775807 GLD

- As a **user**, I want to be able to **view the order history**.

Trade history

Amount (GLD)	Price (USD)	Total (USD)	Time
20,454.26	3.23	66,067.2598	April 6, 2019 at 22:10
13,536.17	3.22	43,908.4674	April 6, 2019 at 22:10
6,818.08	3.21	21,886.0368	April 6, 2019 at 22:10
34,468.67	3.15	108,576.3105	April 6, 2019 at 22:10
17,179.79	3.16	54,288.1364	April 6, 2019 at 22:09
7,014.83	3.19	22,377.3077	April 6, 2019 at 22:09
3,507.41	3.18	11,153.5638	April 6, 2019 at 22:09
8,846.47	3.16	27,954.8452	April 6, 2019 at 22:09
4,423.23	3.15	13,933.1745	April 6, 2019 at 22:08

Verified user

- As **verified user**, I want to **view the list of ongoing token offering campaigns**.



Sales

Investable sales

Live ▾



Yutaka Mansions

Most investors buy REITs for their rich dividends, although those dividends are usually fully taxable. Keep in mind, though, that each real estate sector is affected by different economic cycles. Larger, diversified, or geographically dispersed REITs are

0% funded
0 USD invested
0 days to launch

Buy **5,000 REIT** for **200,000 USD**



Oleg's Second Offering

Participate in the second offering and get a discount!

0% funded
0 USD invested
0 days to launch

Buy **1,000 OLG** for **20,000 USD**

- As **verified user**, I want to be able to **view the token offering campaigns details** when they are selected.



Sale details



alice@mail.com
General account

Investable sales [Campaign](#)

Yutaka Mansions (REIT)

Most investors buy REITs for their rich dividends, although those dividends are usually fully taxable. Keep in mind, though, that each real estate sector is affected by different economic cycles. Larger, diversified, or geographically dispersed REITs are

[View details](#)



No description provided

0 USD

0% funded

0

days to go

Invest in this sale

Asset

BTC (BTC)

Balance: 0 BTC

Amount BTC

Converted: 0 USD

[Invest](#)

- As a **verified user**, I want to be able to **create requests for changing limits** of my account.



Change limits

×

Operation type limit

Deposit

▼

Type	Limit
Daily Limit	100.000000
Weekly Limit	700.000000
Monthly Limit	3100.000000
Annual Limit	35600.000000

Request new limits

Daily Limit

100.000000

Weekly Limit

700.000000

Monthly Limit

3100.000000

Annual Limit

35600.000000

Note (optional)

0/250

Send request

- As a **verified user**, I want to be able to view the state of the request for changing limits.

Requests				
Date	Request type	State	Asset	
August 6, 2019 at 16:40	Initial	Pending	GLD	Details

- As a **verified user**, I want **to receive information about the documents required for changing limits**.



- As a **verified user**, I want to be able to **upload the documents required for changing limits**.

Limits request details ×

Your request was submitted. Please wait until it is reviewed

Request type	Initial
Daily limit	1000.000000 GLD
Weekly limit	7000.000000 GLD
Monthly limit	31000.000000 GLD
Annual limit	356000.000000 GLD

Upload documents

- As a **verified user**, I want to be able to **view details of my account limits on asset transfers**.
- As a **verified user**, I want to be able to **view details of my account limits on asset withdrawals**.
- As a **verified user**, I want to be able to **view details of my account limits on asset deposits**.



Limits

A

alice@mail.com ▾
General account[Explore limits](#)[Change limits](#)

Requests

Date	Request type	State	Asset	
August 6, 2019 at 16:40	Initial	Pending	GLD	Details

Current limits

GLD ▾

Operation type	Daily (left/total)	Weekly (left/total)	Monthly (left/total)	Annual (left/total)
Withdraw	200 / 200	1,400 / 1,400	6,200 / 6,200	70,000 / 70,000
Deposit	100 / 100	700 / 700	3,100 / 3,100	35,600 / 35,600
Payment	100 / 100	700 / 700	3,100 / 3,100	35,600 / 35,600

Corporate user

- As a **corporate user**, I want to be able to **submit information on a token offering campaign**
- As a **corporate user**, I want to be able to **submit a description of an ongoing campaign**.



New sale



1. Main information 2. Short blurb 3. Full description

Sale name

Base asset

TokenD Token2 (TDT2)



Cap asset

USD (USD)



TDT2 to sell

Available: 1,000 TDT2

☐ Whitelisted

Start time

Close time

Soft cap (USD)

Hard cap (USD)

Price (USD for 1 TDT2) \approx NaN USD

Accept investments in:

☐ BTC (BTC)

New sale



1. Main information 2. Short blurb 3. Full description

Upload the image users will see first in their searcher



Selected file: 130802164505-skyscrapers-gallery---cctv-horizontal-large-gallery.jpg

Drag another file here or click to browse

JPG, PNG, max 5 mb.

Short description

1/255

Next

- As a **corporate user**, I want to be able to **submit information on backing assets**.



New sale ×

1. Main information

2. Short blurb

3. Full description

Insert YouTube video link or ID

Preview your video

Full description

B I H₁ H₂

- As a **corporate user**, I want to be able **to view portfolios of the token offering campaigns** in which assets have been invested.



Sales



corporate@mail.com ▾
Corporate account

Investable sales

My sales

+ Create

Live ▾



Yutaka Mansions

Most investors buy REITs for their rich dividends, although those dividends are usually fully taxable. Keep in mind, though, that each real estate sector is affected by different economic cycles. Larger, diversified, or geographically dispersed REITs are

0% funded
0 USD invested
0 days to launch

Buy **5,000 REIT** for **200,000 USD**



Oleg's Second Offering

Participate in the second offering and get a discount!

0% funded
0 USD invested
0 days to launch

Buy **1,000 OLG** for **20,000 USD**

- As **corporate user**, I want to be able to **view a summary of a specific token offering campaign**.



Sale overview



Asset

R

REIT

Real Estate Investment Token

Maximum	10,000
Issued	0
Available	5,000
Transferable	Yes
Withdrawable	No
Deposit method	Non-depositable
Asset type	Requires verification
Requires KYC	Yes
Terms	No terms

Details

Start time	Yesterday at 18:45
Close time	September 6, 2019 at 12:00
Soft cap	100,000 USD
Hard cap	200,000 USD
REIT to sell	5,000 REIT
Whitelisted	No
Owner	corporate@mail.com

Administrator

- As an **administrator**, I want to be able to view **details of all the platform users' accounts**.



User index				A admin_demo	
Role				Requestor	
Email	Account ID	Role	State		
pp@distributedlab.com	GAIG...HNQF	Unverified	Active		
corporate@mail.com	GBZN...QXQC	Corporate	Active		
qqq@qqq.qqq	GB3F...GTKI	Unverified	Active		
bilbo@mail.com	GD5M...BHJ5	General	Active		

- As an **administrator**, I want to be able to **view the list of all other platform administrators**.

Admin index					A admin_demo	
Admin list					+ New admin	
	Role	Account ID	Weight	Identity		
Dev admin	Super Administrator	GCNU...XT5D	1000	1		
Super Admin (you)	Super Administrator	GCLD...M3AR	1000	0		

- As an **administrator**, I want to be able to **view updates** associated with **platform administrators' accounts**.



Admin index

Manage administrator

Account ID
GCNUPUQ6HCPGLW4FIEEELVLJFXSCRRVJONJVU52IRBK5RCOXMPAXT5D

Name
Dev admin

Identity
1

Weight
1000

Signer role
License Admin

Able to manage system licenses

Update Delete

- As an **administrator**, I want to be able to **create platform administrators** using predefined templates.

Admin index

Add new administrator

Account ID

Name

Identity Weight

- Master
- Super Administrator
- ✓ KYC/AML
- External Systems Administrator
- License Admin

Add

- As an **administrator**, I want to be able to **update administrator accounts** on the platform.



- As an **administrator**, I want to be able to **delete platform administrators**.

Manage administrator

Account ID	
GCNUPUQ6HCPGXLW4FIEEELVLJFXSCRRVJONJVU52IRBK5RCOXMPAXT5D	
Name	
Dev admin	
Identity	Weight
1	1000
Signer role	
Super Administrator	
Have full access to system administration functionality	
Update	Delete

KYC/AML and identity requirements for administrator

- As an **administrator**, I want to be able to **view and verify users' KYC data**.

User details

Account information

Email	bob@mail.com
Account ID	GAEAJAIZAH5GHRTPYAWTF6CINPLYPY6KVWSS2ESG36NCYUWLKJ...
Account role	General
Account state	Active

Previous approved KYC Request

KYC information

Can be uploaded one of the documents:

- Valid Passport;
- Valid Identity card;
- Valid Residence permit;
- Driving license - full, not provisional, with a color photograph;

First name	Bob
Last name	Sponge
Date of birth	05 Aug 2019 at 01:04:01
Address Line 1	



TOKEND

- As an **administrator**, I want to be able to **view history of KYC requests**.
- As an **administrator**, I want to be able to **view list of pending KYC requests**.
- As an **administrator**, I want to be able to **view pending new KYC requests**.
- As an **administrator**, I want to be able to **view update KYC requests of verified users**.
- As an **administrator**, I want to be able to **view pending new KYC requests of corporate users**.
- As an **administrator**, I want to be able to **view pending update KYC requests of corporate users**.

The screenshot shows a web interface with a dark blue header. On the left, there are two tabs: 'Index' and 'Queue', with 'Queue' being the active tab. On the right of the header, there is a user profile icon with the letter 'A' and the text 'admin_demo' followed by a dropdown arrow. Below the header, there is a white filter bar with four dropdown menus: 'Role to set', 'State' (currently showing 'Waiting for review'), 'Pending tasks', and 'Requestor'.

Pre-issuance requirements for administrator

- As an **administrator**, I want to be able to **view and process requests for pre-issuance**.

The screenshot shows a web interface with a dark blue header. It has three tabs: 'Pre-issuance', 'Change asset issuer', and 'Pre-issuance requests', with 'Pre-issuance requests' being the active tab. On the right of the header, there is a user profile icon with the letter 'A' and the text 'admin_demo' followed by a dropdown arrow. Below the header, the main content area is titled 'Preissuance Requests'. It features a filter section with an 'Asset' dropdown menu currently set to 'All'. Below this is a table with the following data:

Amount	Asset	Status	
100.000000	PIA	Approved	

To the right of the table, there are two buttons: a red 'Reject' button and a blue 'Accept' button.



Issuance requirements for administrator

- As an **administrator**, I want to be able to **view all assets** on the platform.
- As an **administrator**, I want to be able to **view requests for issuing tokenized assets**.

System assets

Asset requests

Issuance

Asset pairs

Withdrawals

Manage assets

Request type

State

Requestor

Asset code

Create

Approved

State

Requestor

BST

Approved

GBMNRAXCI6UNH4K5G...

FBT

Approved

GBMNRAXCI6UNH4K5G...

PIA

Approved

GAI4JPE7LS2ML3SOVPY...

- As an **administrator**, I want to be able to **view** the entire **history of events** related to **asset issuance**.



Manage assets

Request type
Create

Pending
Canceled
✓ Approved
Rejected
Permanently rejected

Requestor

Asset code

	State	Requestor
BST	Approved	GBMNRAXCI6UNH4K5G...

- As an **administrator**, I want to be able to **view pre-issuance files**.
- As an **administrator**, I want to be able to **approve requests for asset issuance**.
- As an **administrator**, I want to be able to **reject requests for asset issuance**.

System assets Asset requests Issuance Asset pairs Withdrawals

Manage assets

Request type
Create

State
Pending

Requestor

Asset code

	State	Requestor
ETH	Pending	GBRIJ4O6KJH7E4U4RW...
TDT3	Pending	GBZNAXDKJW6PFJLBXJ...



- As an **administrator**, I want to be able to **sign and upload pre-issuance files** on the platform.

Pre-issuance Change asset issuer Pre-issuance requests

Upload preissuance

Select file(s) with preissued asset and click **Upload**.
Note: you cannot upload the same preissuance twice
[Learn more about pre-issuance](#)

Select File(s)

Fees requirements for administrator

- As an **administrator**, I want to be able to **view and manage fees** on the platform to fulfill regulatory and business requirements.
- As an **administrator**, I want to be able to **view detailed fees configurations** for a particular account type, a particular asset, and a particular account.
- As an **administrator**, I want to be able to **manage fees** for a **particular asset**.
- As an **administrator**, I want to be able to **manage fees** for a **particular account type**.
- As an **administrator**, I want to be able to **manage fees** for a **particular account**.



Fee management

Scope

✓ Global
Account type
Account
USD

Type

Payment

Direction

outgoing

Lower bound	Upper bound	Percent fee	Fixed fee		
0.000000	100.000000	1.000000	0.000000	Update	Delete
100.000001	10000.000000	2.000000	0.000000	Update	Delete
10000.000001	9223372036854.775807	0.500000	0.000000	Update	Delete
0	0	↑ 0	0	Create	

Limits requirements for administrator

- As an **administrator**, I want to be able to **view and manage limits** on the platform to fulfill regulatory and business requirements.
- As an **administrator**, I want to be able to **manage limits** for a **particular account type**.
- As an **administrator**, I want to be able to **manage limits** for a **particular account**.



Limits management

Asset
Digital Gold (GLD) ▾

Scope
✓ Global
Account type
Account

Payment limits		Withdrawal limits		Deposit limits	
Daily	100.000000	Daily	Not set	Daily	Not set
Weekly	1000.000000	Weekly	Not set	Weekly	Not set
Monthly	10000.000000	Monthly	Not set	Monthly	Not set
Annual	100000.000000	Annual	Not set	Annual	Not set
<div>Update Remove</div>		<div>Update Remove</div>		<div>Update Remove</div>	

- As an **administrator**, I want to be able to **manage user's requests for changing limits**.
- As an **administrator**, I want to be able to **manage requests for changing limits with documents uploading**.
- As an **administrator**, I want to be able to **view details of verified users' accounts**.
- As an **administrator**, I want to be able to **view details of corporate users' accounts**.

[< Back](#)**Request information**

Request date & time	11 Mar 2019 at 06:58:40
Account role	Corporate
Request type	Initial
Account email	corporate@mail.com
Account ID	GBZNAXDKJW6PFJLBXJUZLLVDF2GII2UCWWBW5FF33UBWBYZGZHNOXQC
Note	—
Limits for asset	USD
Operation type limits	deposit

Current limits

daily limit	9223372036854.775807
weekly limit	9223372036854.775807
monthly limit	9223372036854.775807
annual limit	9223372036854.775807

Desired limits

daily limit	100
weekly limit	1000
monthly limit	10000
annual limit	10000

Approve

Request docs

Reject

token offering requirements for administrator

- As an **administrator**, I want to be able to **view and process requests for creating token offering campaigns**.
- As an **administrator**, I want to be able to **view list of pending requests** for creating token offering campaigns.



Sale request list

State

✓ Pending

Cancelled

Approved

Rejected

Permanently rejected

Requestor

Name	Hard cap	Requestor	
DLPJ	Private Jet Campaign	2,000,000.000000 USD	corporate@mail.com

Manage sale request

Details

Full description

Corporate user

Request details

Requestor

Request state

Requested at

corporate@mail.com

Pending

06 Aug 2019 17:59:47

Asset details

Name

Code

Initial preissued amount

Max issuance amount

Preissuance signer

Policies

Terms

Distributed Lab Private Jet

DLPJ

10,000.000000

10,000.000000

GAAQ...AHV4

—

(No document)

Asset logo

(No logo yet)

Sale details

Name

Whitelisted

Start time

End time

Soft cap

Hard cap

Max DLPJ amount to be sold

Private Jet Campaign

No

06 Aug 2019 18:05:00


06 Sep 2019 12:00:00

1,000,000.000000 USD

2,000,000.000000 USD

2,000.000000 DLPJ

Sale logo



Short description

let's get a private jet!

Approve

Reject



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- As an **administrator**, I want to be able to **view list of approved requests** for creating token offering campaigns.
- As an **administrator**, I want to be able to **view list of token offering campaigns**.

Sale list

Asset code	Owner	State Open	▼
Start date	End date	Type	▼

	Name	State	Owner
REIT	Yutaka Mansions	Open	corporate@mail.com
OLG	Oleg's Second Offering	Open	corporate@mail.com



Sale overview

Details Full description Participants Corporate user

Asset details

Name	Real Estate Investment Token
Code	REIT
Owner	corporate@mail.com
Preissued asset signer	GAAQ...AHV4
Max issuance amount	10,000.000000
Pending issuance	5,000.000000
Issued	0.000000
Available for issuance	5,000.000000
Policies	Transferable
Terms	(No document)

Asset logo

(No logo)

Sale details

Name	Yutaka Mansions
State	Open
Whitelisted	No
Owner	corporate@mail.com
Start time	05 Aug 2019 18:45:00
End time	06 Sep 2019 12:00:00

Sale logo



BTC progress

Price (per REIT)	1.000000
Current cap	0.000000
Total current cap	0.000000
Hard cap	20.000000

CHF progress

Price (per REIT)	1.000000
Current cap	0.000000
Total current cap	0.000000
Hard cap	200,000.000000

GLD progress

Price (per REIT)	1.000000
Current cap	0.000000
Total current cap	0.000000
Hard cap	61,919.504644

USD progress

Price (per REIT)	1.000000
Current cap	0.000000
Total current cap	0.000000
Hard cap	200,000.000000

Total progress

Current cap	0.000000 USD
Soft cap	100,000.000000 USD
Hard cap	200,000.000000 USD
Max REIT amount to be sold	5,000.000000 REIT

Short description

Most investors buy REITs for their rich dividends, although those dividends are usually fully taxable. Keep in mind, though, that each real estate sector is affected by different economic cycles. Larger, diversified, or geographically dispersed REITs are



Trade requirements for administrator

- As an **administrator**, I want to be able to **add asset pair** to list of ones available for trading.
- As an **administrator**, I want to be able to **enable / disable asset pair** in list of ones available for trading.

Asset pairs			+ Create pair	
	Price	Policy		
ARTD/USD	1.000000 USD	0 ?		
BST/BTC	1.000000 BTC	0 ?		
BST/CHF	1.000000 CHF	0 ?		
BST/USD	1.000000 USD	0 ?		

Security requirements for administrator

- As an **administrator**, I want to be able to **view details of user accounts**.
- As an **administrator**, I want to be able to **monitor users' actions** on the platform to detect security policy threats.
- As an **administrator**, I want to be able to **ban user accounts** to comply with platform security policy.
- As an **administrator**, I want to be able to **unban user accounts** to restore user access to platform services..



User details

Account information

Email	corporate@mail.com
Account ID	GBZNAXDKJW6PFJLBXJUZZLLVDF2GII2UCWWBW5FF33UBWBYZGZ...
Account role	Corporate
Account state	Active

An error occurred. Please try again later.

Corporate user details

Name	TokenD
Headquarters	Kharkiv
Homepage	https://tokend.io
Industry	IT
Team size	50
Company	TokenD

Block user

Reset to unverified

Operations

Type	Date	Source	Counterparty
Manage asset	10 Jun 2019 at 06:15:33	GBZNAXDKJW6PFJLBXJUZZLLV...	-
Check sale state	20 May 2019 at 06:04:33	Master	-

Applications requirements

User

- As a **user**, I want my wallet to **store all transactions associated with me**.
- As a **user**, I want to be able to **manage my account and assets via web application**.
- As a **user**, I want to be able to **manage my account and assets via mobile wallet**.



- As a **user**, I want to be able to **access my wallet from any device at any time** convenient for me.
- As a **user**, I want to be able to **restore access to my account** in case my password is lost.
- As a **user**, I want to be able to log out of the platform.

Corporate user

- As a **corporate user**, I want to be able to **use an offline device to generate keys for pre-issuance** as well as to **encrypt / decrypt them**.
- As a **corporate user**, I want to be able to **create tokenized asset pre-issuance file on offline device** to ensure higher security level.

Administrator

- As an **administrator**, I want to be able to **manage operations via web application**.
- As an **administrator**, I want to be able to **log out of the platform**.
- As an **administrator**, I want to be able to **generate keys file on offline device**.
- As an **administrator**, I want to be able to **create pre-issuance file on offline device**.
- As an **administrator**, I want to be able to **review details of pre-issuance file on offline device**.

Ledger synchronization requirements

- As a **platform owner**, I want to be able to perform the **initial configuration of the platform** by changing the initialization scripts, namely: **to configure the roles of users and administrators of the platform, system assets, trading pairs of assets**.
- As a **platform owner**, I want to be able to **distribute maintaining history between several parties** with possible **real-time synchronization** between them.



Learn More

<https://tokend.io/>

<https://docs.tokend.io/>

sales@distributedlab.com

About TOKEND

TOKEND is a white label blockchain software platform that consolidates best practices of tokenization solutions. It allows you to issue, transfer and exchange your assets with a high level of privacy, security, and auditability while following regulations of your jurisdiction. TOKEND is designed for enterprises who are willing to take advantage of tokenization or experiment with blockchain technology without the need for maintaining the expensive team of blockchain experts and within the shortest time to market.

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