

Alchemint User Manual

1. Explanation

- Version 1.1, beta use only
- Drafted by 2018-9-12
- Updated by 2018-10-17

2. Term Explanation

Alchemint Platform: Alchemint is a mixed mode stablecoin issuance platform based on NEO through smart contracts and inter-chain technology. Individuals and institutions are enabled to issue any stablecoin by different protocols. Its vision is to become a cross-protocol stablecoin management center.

Keystore: it refers to a file format (JSON) to store the private key. It allows users to customize password. Logging in wallet requires Keystore file and password.

SAR: namely "Smart Asset Reserve". It is a very important technology component within the system. It is a smart contract based on Neo.

SAR-B: Mainly for business users. Stablecoin is issued through the means of the 100% off-chain currency reserves and on-chain SDS locked as a security deposit by smart contract. Each SAR will lock SDS. The market value and the minimum margin ratio of SDS determine the number of stablecoin that can be released. The current minimum deposit ratio of 50%.

SAR-C: Mainly for individual users and business users. Stablecoin is issued by over-collateralizing digital assets. The stablecoin name is SDUSD.

SAR Status: In the SAR-C, when "0<SAR mortgage rates <= 150%", the status of SAR is displayed as "Unsafe"; when "150% <SAR mortgage rates <= 200%", SAR status is shown as "Dangerous"; when "SAR mortgage rate> 200%, SAR", status is displayed as "Safe".



SDUSD: its price anchors at dollars. It is the standard stablecoin issued on the Alchemint platform by institutions and individuals through collateralizing digital assets. During liquidation and returning, the worth of one SDUSD is always accounted as 1 dollar and is irrelevant to the market prices.

Total SDUSD Issued: it refers to the total amount of all issued SDUSD in the whole SAR-C system.

Overall Issuing Ceiling (SDUSD): The upper limit of the total amount of the SDUSD can be issued in SAR-C system.

CNEO: due to the fact that the minimum unit of NEO is 1. Its segmentation is not allowed. Thus CNEO is needed for calculation purpose. The minimum unit of CNEO is 0.00000001. The exchange ratio between NEO and CNEO is constantly 1: 1. At any time, user can freely convert CNEO to NEO and vice versa in Alchemint platform.

Total CNEO Collateralized: it refers to all the CNEO collateralized in the whole SAR-C system.

SDS: it refers to Alchemint platform token. In the SAR-C, it acts as a mean to pay for service charge; in the SAR-B, it acts as a margin.

Issuing Fee (Yearly): Start charging since the moment of issuing SDUSD on the first block of time. Fee is charged in proportion of returned stablecoin. For example, with the condition of 1% yearly issuing fee, one year after the issuance of 100 SDUSD worth of \$ 100 requires \$ 1 fee. It will be paid through SDS.

Overall Mortgage Rate = Total CNEO Collateralized / Total SDUSD Issued
Liquidation Mortgage Rate: When mortgage rates reach below this rate, SAR
state is "unsafe" which allows this SAR to be liquidated.

Liquidation: When any one of mortgage rates of the SAR in SAR-C reaches below 150%, it can be improved by liquidation. Any user holding SDUSD could participate in liquidation and obtain the corresponding collateral with a discount. But when mortgage rates rise to 160% after liquidation, further liquidation of the SAR is not allowed. If a SAR mortgage rate reaches below 100%, it is still allowed to perform the liquidation, but not only will there be no discount, it results a loss. During liquidation, no service fee is required.

SAR Liquidation Price: Under the condition that the amount of collateral and stablecoin remain unchanged, the price drop of CNEO will cause the SAR



mortgage rates reach 150%. The price of CNEO that leads to the liquidation threshold is called SAR Liquidation Price.

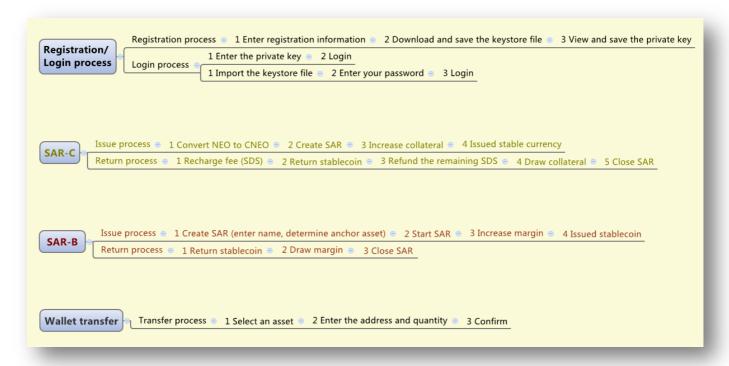
Liquidation Discount: During testing period, the discount rate is 90%. For example, with 0.9 SDUSD worthy \$ 0.9 you can exchange for the amount of CNEO worthy \$ 1 during liquidation.



3. Operating procedures

Platform consists of three parts: Personal (SAR-C), means (SAR-B), the wallet.

The basic procedure is as follows:

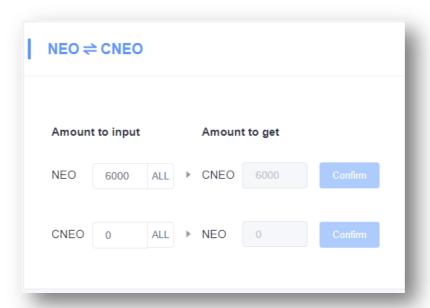




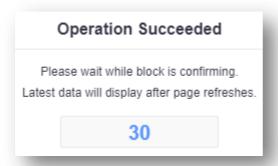
4. Specific Steps

4.1 SAR-C stablecoin Issuance

First step, convert NEO into CNEO

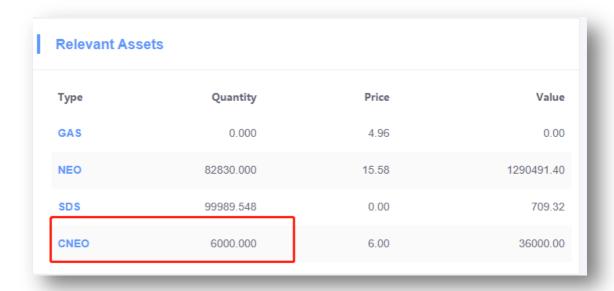


After entering the number for the conversion, click Confirm. Here you can only enter an integer. Decimal type is not allowed.



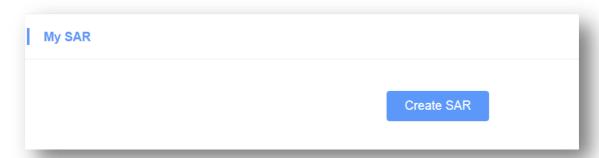
Afterwards a 30-second countdown will pop up. You need to wait for the block to be confirmed. Since each step on the Alchemint platform is done on the blockchain, every operation requires waiting for confirmation on NEO public chain before further operation. Thus you need to be patient wait for a while. After the countdown, the page will automatically refresh.





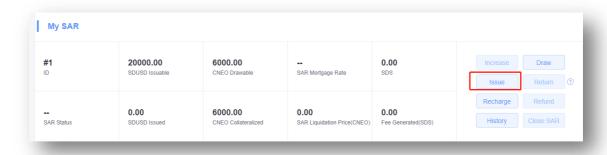
After the refresh, CNEO column will be added.

Second step, click on "Creating SAR"



Likewise, wait 30 seconds. After refreshing, the SAR Panel will emerge.

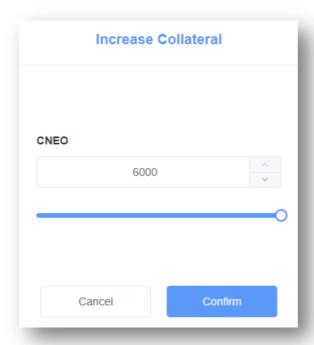
Third step, increase collateral



Click "Increase Collateral", enter and confirm the number.

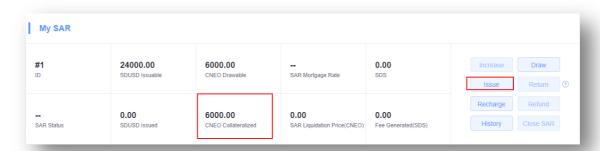


Note: Due to the execution condition is not satisfied, some buttons are in a non-clickable state, such as "Draw Collateral" in this moment.



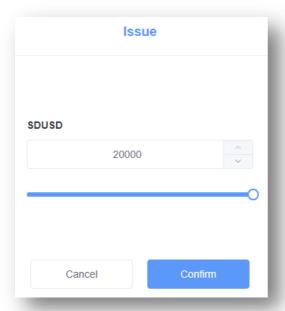
The initial default number is the maximum number allowed in your account. You can edit the number in the box or drag the percentage bar if you want to change the number.

Fourth step, issue stablecoin

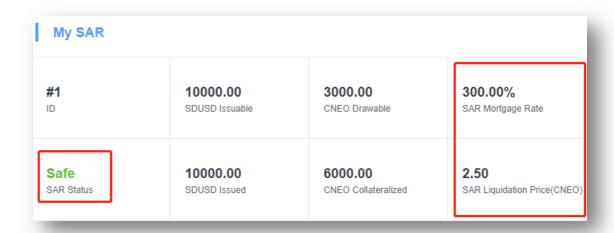


The corresponding value in the SAR Panel will occurs. Since this SAR has been collateralized, you now may issue stablecoin.





In this testing case, the maximum SDUSD allowed to be issued is 20,000. The formula: the maximum number of stablecoins issued= total value of the collateral / mortgage rates. Let's say you issue a maximum amount of stablecoin in your SAR which will lead your SAR mortgage rates to a critical value of liquidation, namely 150%. In order to avoid the risk of being liquidated, it is recommended to keep the mortgage rates relative higher, such as 300%.

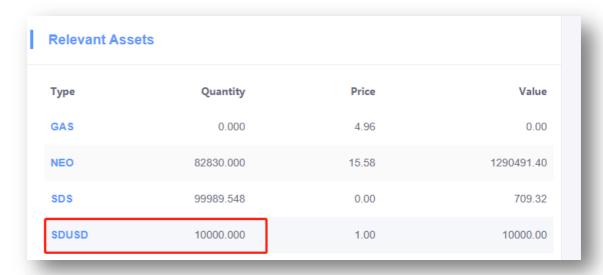


Herr we chose to issue 10,000 SDUSD which led to a 300.00% SAR mortgage rate.

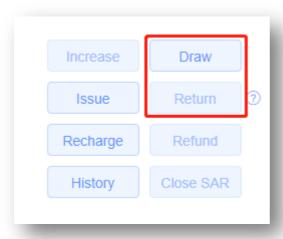
In this testing case, CNEO price is \$ 5. Only when CNEO falls to \$ 2.50, will



the liquidation be triggered.

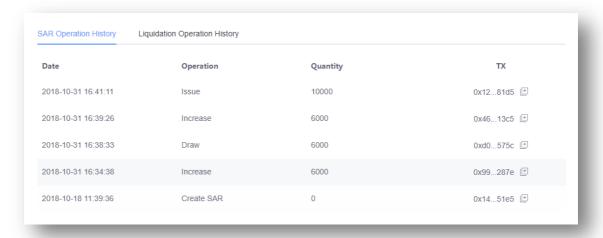


Meanwhile, the number of SDUSD can be viewed in "Relevant assets".



At this point, you can perform other operations, such as drawing collateral. As long as the SAR mortgage rate is no less than 150%, the system allows drawing. The amount extractable = {(SAR mortgage rates -150%) / SAR mortgage rates} * total CNEO collateralized.





In "Operation History", you can view all the operation records.

At this point, since you have not recharged service fee (SDS), the system also does not allow you to perform returning stablecoin.

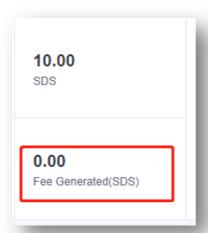
4.2 SAR-C Return Process

First step, recharge fee (SDS)



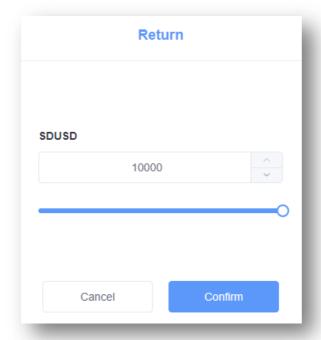
Enter the number and click OK. After refreshing, you are allowed to return stablecoin.



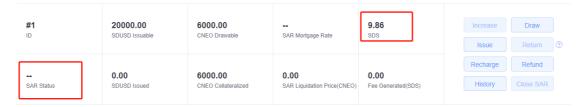


Although the system begins calculating fee since the moment of issuance of stablecoin, it may not be displayed due to be the amount of fees generated is still too small.

Second step, return stablecoin



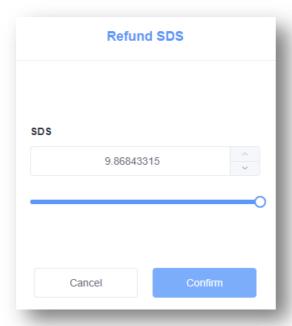
In this testing case, we choose to return all stablecoin.





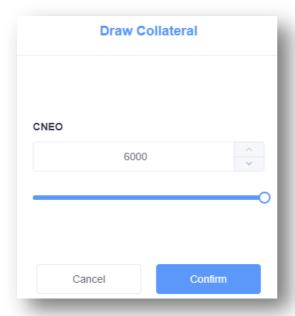
At this point, you can see "SDUSD Issued" is zero and the fee has been deducted.

Third step, refund the remaining SDS



At this point, if we wish to close this SAR, we can extract the remaining SDS.

Fourth step, draw collateral

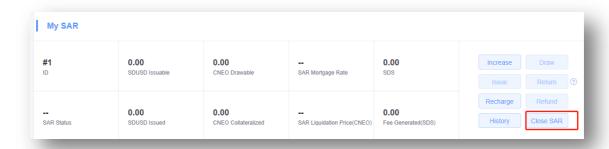


Let's further drawing all the collateral. The order of the third step and

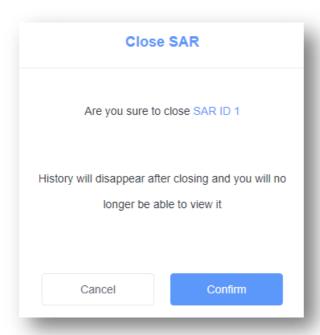


fourth step may be reversed.

Fifth step, close SAR



Only when all values on the panel are zero, will you be able to close the SAR. After closing, SAR Panel will close.



When you create the next SAR, you cannot view the pervious SAR operation.

At this point, you can convert the CNEO into NEO. But if CNEO is not an integer, the remaining part after the decimal point cannot be converted to NEO.



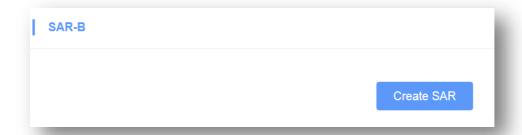
A ATTENTION

- · Do not manually turn off or refresh this page!
- Otherwise the conversion may fail and the quantity might be wrong!
- Please wait patiently till two 30s countdown on the right is over.

It should be noted here that due to some limitations of the current NEO network, it is technically necessary to use 2-step blockchain confirmation to complete the conversion. Never turn off or refresh the page during this conversion process. Wait patiently for the page to automatically refresh.

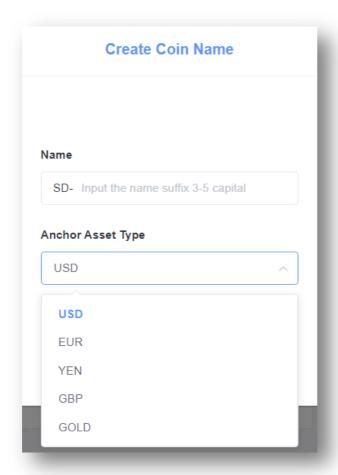
4.3 SAR-B stablecoin issue

First step, Creating SAR



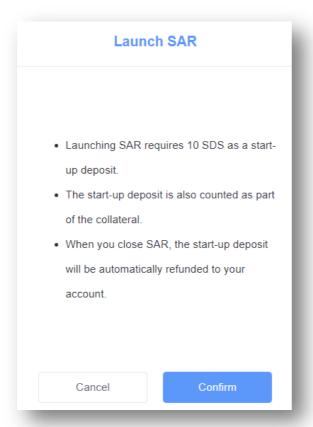
Click "Create SAR", enter the name of your stablecoin, and select the anchor type of asset. Afterwards, you will not able to change it.





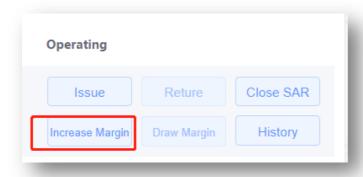
Second step, start SAR





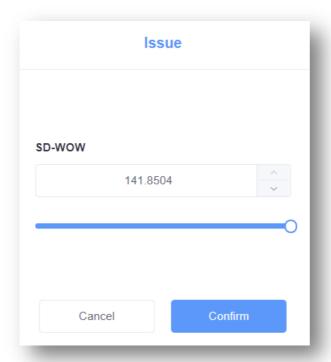
Note: If there are less than 10 SDS in the account, you cannot start your SAR.

Third step, increased margin

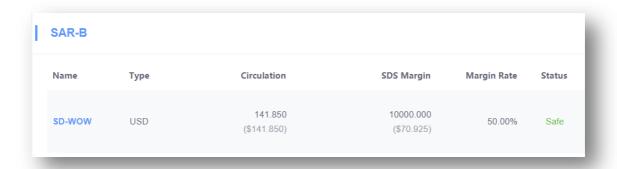


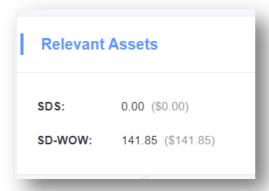
Fourth step, issue stablecoin





The maximum issuable number = (total value of the deposit / 50%) / unit price of the anchored stablecoin



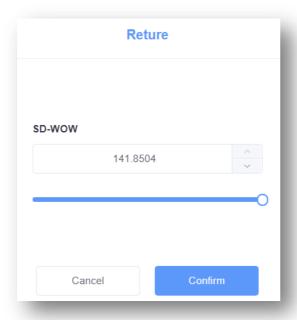


After confirmation, you can view it in the "Relevant assets".



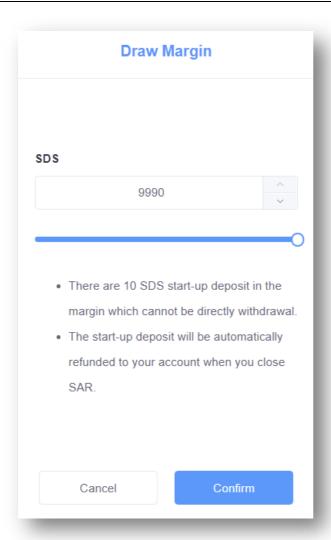
4.4 SAR-B stable recovery credits

First step, return stablecoin

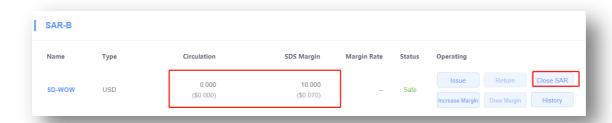


Second step, draw margin





Third step, close SAR



When the circulation is zero and the margin is just 10, this SAR can be closed.



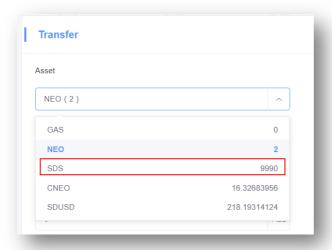
History will disappear after closing and you will no longer be able to view it. The coin name will be available on the market. The start-up deposit will be automatically refunded to your account. Preconditon for closing: The circulation is 0; The amount of margin is exactly 10. Cancel Confirm

After closing, you cannot view the history.

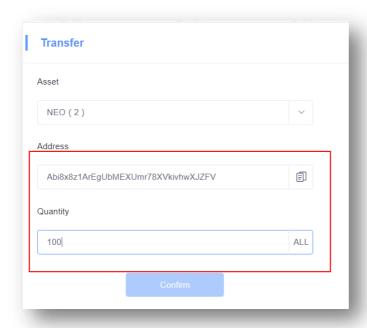
4.5 Transfer wallet

First step, select an asset





Second step, the number of input address



Then confirm.



5. Precautions

- Test URL: testnet.alchemint.io
- This version is currently in private beta, not the final product form. The UI, UX, functionality and mechanisms are to be improved constantly.
- Alchemint will provide volunteers the testing tokens including NEO,
 SDS and so on.
- Test network token is different from the main network token and cannot be traded in exchange.
- If you cannot open the page, try VPN or 4g network.
- White paper offers a detailed discussion on the mechanism. It can be downloaded through the official website.
- When encounter problems or have doubts during testing, please contact us.