

Burn of Early Redemption Auction Tokens

At the auction on June 19, 2019, the Foundation sold 25 million tokens with a refund policy. On Aug 1, 2019, the Foundation offered an early redemption plan for these tokens. Out of the total amount of tokens about 19.9 million tokens were redeemed in the early redemption program by Aug 9, 2019. On Nov 1, 2019 we burned these tokens. Here are the details of the process.

1. For each party who participated in the early redemption program, an individual address was set up. The keys of that address were held by the Foundation. The participating party transferred its tokens to the individual address that was assigned to it by Aug 30, 2019. Once this transfer was completed the refund was processed by the Foundation shortly after.
2. On Oct 31, 2019 we chose the time of Nov 1, 2019 at 12:00PM EST as the time we will query the NIST beacon.
3. We used the NIST Beacon “output value” accessed on Nov 1, 2019, 12:00PM EST from the website: <https://beacon.nist.gov/home> It was:
DE0D45B78E01D137A0A62742F097A325E55295AAAD2F089014D8673989A41DF4A40B389630DFEED93F7F2D73840BB5F89E8F89C030B088864CE8B34B3ED23B1C
The value can be directly accessed through
<https://beacon.nist.gov/beacon/2.0/pulse/time/1572624000000>
4. We used the following process applied to the value from (3) to derive the public key of the burning address:
 - a. The hexadecimal value of the beacon (3) is interpreted as a 64-byte array.
 - b. The value from (4.a) is hashed directly using SHA256, resulting in a 32-byte array, which corresponds to the Algorand address without checksum.
 - c. The 4-byte checksum of the value from (4.b) is then computed (see <https://github.com/algorand/go-algorand-sdk/blob/fdb5215a96b5e6cf2aecdd92183932403df04f4f/types/address.go#L19>) and appended to the value from (4.b).
 - d. The value from (4.c) is converted in base32 without trailing “=” characters. The resulting value is the actual Algorand address:
FRWQZO4A6NZKANEYYWAHZIBHJ46T2LVRFACCLHUY3JQAJLUIWNQQLQ26A.
5. We had 432 transactions representing 432 early redemptions.
6. We created and signed the transactions to move the tokens from each one of the individual addresses to the burning address (from 4.d).
7. At 12:55pm on Nov 1, 2019 the address was empty (see screenshot below)
8. We uploaded the transactions to the blockchain in block 2825011
9. The address had 20.5M tokens at 1:25PM (see screenshot below). Note that the address has more tokens as the rewards received by the individual address were burnt as well. This address will continue to receive rewards which will automatically be burnt.
10. This rendered all the 19.9 million tokens that participated in the early redemption program unusable and untransferable.

Screenshot of the address before burning.

The screenshot shows two browser windows. The left window is Algoexplorer, displaying the 'Address Overview' for the address FRWQZO4A6NZKANEYYWAHZIBHJ46T2LVRFACCLHUY3JQAJLUIWNQLOQ26A. The balance is 0 Algos, and the status is 'Offline'. The right window is 'The Official NIST US Time' page, showing the time as 12:55:15 p.m. on Friday, November 1, 2019, Eastern Time (DST). A world map indicates that the sun is shining in the light region and it is night in the dark region.

Algoexplorer Address Overview

FRWQZO4A6NZKANEYYWAHZIBHJ46T2LVRFACCLHUY3JQAJLUIWNQLOQ26A

Balance: 0 Algos
Total transactions: [icon]
Rewards: 0 Algos
Status: Offline

TRANSACTION DETAILS

TxD	Age	From/To	Value/Fee
No transactions			

The Official NIST US Time

Right now, the official U.S. time is:
12:55:15 p.m.
12-hr 24-hr
Friday, November 1, 2019
Eastern Time (DST)
Corrected for network delay
Sun is shining in light region
It is night in dark region
About This Site

Screenshot of the address after burning.

The screenshot shows the same two browser windows after a transaction. The left window shows the address overview with a balance of 20,509,343.120773 Algos and 432 total transactions. The right window shows the NIST US Time page with the time updated to 01:25:17 p.m. The world map now shows the sun shining in the dark region, indicating a DST jump.

Algoexplorer Address Overview

FRWQZO4A6NZKANEYYWAHZIBHJ46T2LVRFACCLHUY3JQAJLUIWNQLOQ26A

Balance: 20,509,343.120773 Algos
Total transactions: 432
Rewards: 0 Algos
Status: Offline

TRANSACTION DETAILS

TxD	Age	From/To	Value/Fee
UTNOQYZ2VJ...	17:24 GMT	From: K45DJJKGKEDBZAPNF... To: FRWQZO4A6NZKANEYY... Close: FRWQZO4A6NZKANE...	Amount: 0.1 Algos 1,721.158687 Algos Fee: 0.001 Algos

The Official NIST US Time

Right now, the official U.S. time is:
01:25:17 p.m.
12-hr 24-hr
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