



Cyberscope

# Audit Report

## **MooCoin**

June 2024

Network SOL

Address 2Us3vpuJ7kRKNkNTZU6A51bQYyrgYvRh2njgokxuMvZh

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# Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	STPMTA	Mint Authority	Passed
●	STPFRA	Freeze Authority	Passed
●	STPUPA	Update Authority	Passed

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## Review

Network	Solana
Address	2Us3vpuJ7kRKNkNTZU6A51bQYyrgYvRh2njgokxuMvZh
Explorer	<a href="https://solscan.io/address/2Us3vpuJ7kRKNkNTZU6A51bQYyrgYvRh2njgokxuMvZh">https://solscan.io/address/2Us3vpuJ7kRKNkNTZU6A51bQYyrgYvRh2njgokxuMvZh</a>
Name	Moo Coin
Symbol	MOO
Decimals	9
Total Supply	10,000,000,000
Metadata File Type	JSON
Owner Program	<a href="https://solscan.io/address/TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA">https://solscan.io/address/TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA</a>
Badge Eligibility	Yes

## Audit Updates

Initial Audit	07 Jun 2024
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## Overview

The MooCoin token symbolized as MOO, is a distinguished SPL (Solana Program Library) token initialized using the `TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA` Token Program on the Solana blockchain, with a supply of 10000000000 tokens. The token uses the URL <https://ipfs.io/ipfs/QmZ7Wrv7ePRXG39VdYhdwYHmYNtAUMStDviCLN7cjbskuM>, which points to a decentralized storage service, while the image <https://ipfs.io/ipfs/Qmak8DcDJ1QrwD3gTESVDF5gLPFrxYdRwZ2vKNdsVFtm7a> is used for visual identification of the token across platforms and marketplaces. Overall, the solana token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Field	Value	Description
updateAuthority	EokKuguAZeHLdbu2uUYUjmD8FkYuCpPH7cCMBKSdZpVy	The public key that is allowed to update this account
mint	2Us3vpuJ7kRKNkNTZU6A51bQYyrgYvRh2njgokxuMvZh	The public key of the Mint Account it derives from
name	Moo Coin	The on-chain name of the token
symbol	MOO	The on-chain symbol of the token
uri	<a href="https://ipfs.io/ipfs/QmZ7Wrv7ePRXG39VdYhdwYHmYNtAUMStDviCLN7cjbskuM">https://ipfs.io/ipfs/QmZ7Wrv7ePRXG39VdYhdwYHmYNtAUMStDviCLN7cjbskuM</a>	The URI to the external metadata. This URI points to an off-chain JSON file that contains additional data following a certain standard
sellerFeeBasisPoints	0	The royalties shared by the creators in basis points — This field is used by most NFT marketplaces, it is not enforced by the Token Metadata program itself

primarySaleHappened	false	A boolean indicating if the token has already been sold at least once. Once flipped to True, it cannot ever be False again. This field can affect the way royalties are distributed
isMutable	false	A boolean indicating if the metadata account can be updated. Once flipped to False, it cannot ever be True again
editionNonce	255	Unique identifier for this edition
tokenStandard	2	The standard of the token

## Metadata

The Metaplex Metadata provides details of the characteristics of the `MooCoin` token, a distinctive digital asset on the Solana blockchain tailored for utilizing the Metaplex Metadata. This metadata includes crucial information necessary for the asset's seamless integration and operation within the Solana ecosystem.

The asset imposes `sellerFeeBasisPoints` of 0 basis points, indicating no transaction fee for trading is set. The metadata indicates that the asset has not yet undergone its primary sale as indicated by the `primarySaleHappened` value set to 0, and it is marked as immutable since `isMutable` is 0, not allowing for future changes to the metadata. The `editionNonce` of 255 signifies a unique edition, while the `tokenStandard` of 2, aligns with a specified token standard within the Solana blockchain, ensuring its compatibility and standardization across the network. This detailed metadata structure offers a comprehensive overview of the token's key features and its operational framework within the Metaplex ecosystem on Solana.

```
{
  "name": "Moo Coin",
  "symbol": "MOO",
  "description": "Moo Coin That Combines Art And Digital Currency Into One Meme-Shaped Company Ecosystem",
  "image":
    "https://ipfs.io/ipfs/Qmak8DcDJ1QrwD3gTESVDF5gLpFrxydRwZ2vKNDsVFtm7a"
}
```

## Findings Breakdown

Severity	Unresolved	Acknowledged	Resolved	Other
● Critical	0	0	0	0
● Medium	0	0	0	0
● Minor / Informative	0	0	0	0



## STPMTA - Mint Authority

<b>Criticality</b>	Passed
<b>Status</b>	Resolved

### Description

The token has a fixed supply of tokens, as the mint authority has been revoked, ensuring a stable and unchangeable total supply. This key characteristic enhances its value proposition within the ecosystem by eliminating the possibility of future inflation of the token value through additional minting. This creates a predictable environment for investors and users, contributing to a perception of increased trustworthiness and security. This decision aligns with the best practices aiming to preserve the token's integrity and value, fostering a more sustainable and confident market presence.

## STPFRA - Freeze Authority

<b>Criticality</b>	Passed
<b>Status</b>	Resolved

### Description

The freeze authority of the token has been revoked, permanently disabling the ability to freeze and thaw accounts. This action signals a definitive stance on account management within the token's ecosystem, emphasizing the permanence of account statuses. Removing the possibility of altering account states, establishes a more secure environment for token holders, reinforcing the network's commitment to stability and reliability. This decision reflects adherence to best security practices, aiming to solidify investor confidence and enhance the token's value by ensuring consistent operational integrity.

## Summary

The MooCoin token, built on the Solana network, leverages a solid architecture initiated via the Token program. This audit rigorously evaluates its performance, security, and compliance with best practices. The investigation aims to identify and address any operational vulnerabilities, performance bottlenecks, and areas for optimization, ensuring the token's robustness and reliability in the Solana ecosystem. The token program analysis reported no compiler errors or critical issues.

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Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



**The Cyberscope team**

<https://www.cyberscope.io>