



Cyberscope

Audit Report

DogWifCeo

June 2024

Network SOL

Address HrFM4YC2YAc5toWwXrFQGohpNinX53ZpzLTPj3jc2tZM

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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	Unresolved

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Review

Network	Solana
Address	HrFM4YC2YAc5toWwXrFQGahpNinX53ZpzLTPj3jc2tZM
Explorer	https://solscan.io/address/HrFM4YC2YAc5toWwXrFQGahpNinX53ZpzLTPj3jc2tZM
Name	dogwifceo
Symbol	WIFC
Decimals	3
Total Supply	100,000,000,000
Metadata File Type	JSON
Owner Program	https://solscan.io/address/TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA
Badge Eligibility	Yes

Audit Updates

Initial Audit	25 Jun 2024 https://github.com/cyberscope-io/audits/blob/main/wifc/v1/audit.pdf
Corrected Phase 2	22 Jul 2024

Overview

The DogWifCeo token symbolized as WIFC, is a distinguished SPL (Solana Program Library) token initialized using the `TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA`

Token Program on the Solana blockchain, with a supply of 100,000,000,000 tokens. The token uses the URL

<https://scarlet-tired-eel-118.mypinata.cloud/ipfs/QmYR3r6kmSxCLai4ePkPpPkSDK4P12SvNf9S2h8crn7dtR>, which points to a decentralized storage service, while the image <https://scarlet-tired-eel-118.mypinata.cloud/ipfs/QmYCMGSCrZpm6kZ5whxyBcM91LvPCQDfM8gYkDTgZUGaxZ> 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	BBfVWR7V7dDFQpeBzup ccZfgXZpxcPWw3gMDEH AD4pok	The public key that is allowed to update this account
mint	HrFM4YC2YAc5toWwXrF QGahpNinX53ZpzLTPj3jc2 tZM	The public key of the Mint Account it derives from
name	dogwifceo	The on-chain name of the token
symbol	WIFC	The on-chain symbol of the token
uri	https://scarlet-tired-eel-118.mypinata.cloud/ipfs/QmYR3r6kmSxCLai4ePkPpPkSDK4P12SvNf9S2h8crn7dtR	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	true	A boolean indicating if the metadata account can be updated. Once flipped to False, it cannot ever be True again
editionNonce	253	Unique identifier for this edition
tokenStandard	2	The standard of the token

Metadata

The Metaplex Metadata provides details of the characteristics of the `DogWifCeo` 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 mutable since `isMutable` is true, allowing future changes to the metadata. The `editionNonce` of 253 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": "dogwifceo",
  "symbol": "WIFC",
  "description": "",
  "image":
    "https://scarlet-tired-eel-118.mypinata.cloud/ipfs/QmYCMGSCrZpm6kZ5whxy
    BcM91LvPCQDfM8gYkDTgZUGaxZ"
}
```

Findings Breakdown



Critical	0
Medium	1
Minor / Informative	0

Severity	Unresolved	Acknowledged	Resolved	Other
Critical	0	0	0	0
Medium	1	0	0	0
Minor / Informative	0	0	0	0

STPMTA - Mint Authority

Criticality	Passed
Status	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

Criticality	Passed
Status	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.

STPUPA - Update Authority

Criticality	Medium
Status	Unresolved

Description

The contract is set up in a way that grants the update authority, with the address `BBfVWR7V7dDFQpeBzupccZfgXZpxcPWw3gMDEHAD4pok`, continued access to alter key metadata fields. This situation leaves the token exposed to potential hazards, as this address has the power to adjust critical attributes such as the token's name, symbol, and image. Without revoking these privileges from the update authority, there's a risk of unauthorized or harmful changes that could undermine the token's integrity and its intended use.

Recommendation

It is recommended to revoke the update authority privileges. This action would ensure a consistent security posture across the contract's operational aspects, eliminating the discrepancy that currently allows for undue modification privileges. Implementing this recommendation would align the contract's security measures, providing a more robust defense against unauthorized changes and enhancing the overall security of the contract's operational environment.

How to revoke the Update Authority:

<https://www.quicknode.com/guides/solana-development/anchor/how-to-make-immutable-solana-programs#remove-the-update-authority-of-a-solana-program>

Summary

The DogWifCeo 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 that the update authority of the token has not yet been revoked. This situation leaves the token's operations regarding updating action, open to modifications. Consequently, this critical operation remains exposed to potential adjustments by the owner.

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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>