Cyberscope

Audit Report

SOLVIN INU AI

February 2024

Network	SOL
Type	SPL-Token
Address	EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc
Audited by	© cyberscope

Analysis

● Critical   ● Medium   ● Minor / Informative   ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

Diagnostics

● Critical ● Medium ● Minor / Informative

Severity	Code	Description	Status
●	CR	Centralization Risk	Unresolved

Table of Contents

Review

Network	SOL
Explorer	https://solscan.io/token/EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc
Fixed Supply	1,000,000,000
Website	https://www.solvinonsol.xyz
Twitter	https://twitter.com/Solvinonsol
Telegram	https://t.me/solvinonsol
Token name	Solvin Inu (SOLVIN)
Token address	EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc
Owner Program	Token Program
Authority	System Program
Decimals	9
Signature	66PsRdFB4SackmzdeeNVAVyPH5g1ZexRAXHZED1hsFtnkskAK9Ynva3WdpMgYvLBqVgwdgyJaFEzgVmb9nhfwtHi
Block	#246153251
Deploy Time	February 04, 2024 22:37:44 Eastern European Standard Time
Instructions	CreateAccount, InitializeMint, CreateAssociatedAccount, MintTo, Create-Metadata-Account-V3, Sol-Transfer
By	56J42zwJT3inEMfLudbfUwSACwrpTRhuBn1Vt3uem6ri
MintTokens Authority	System Program

FreezeAccount Authority	None
Metadata File Type	JSON
Name	Solvin Inu
Symbol	SOLVIN
Description	Solvin Inu AI is Bonk and Myro's brave squirrel friend.
Image	https://arweave.net/MeMo948F1FViEReavpdcSfmzkf4oP9hmaEwILCK0Ot0
Total Transfers (At the time of the report)	0
Total Transactions (At the time of the report)	4
Total Holders (At the time of the report)	1

Audit Updates

Initial Audit	27 Feb 2024

Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc#metadata

Overview

The `Solvin Inu` token, symbolized as SOLVIN, is a distinguished SPL (Solana Program Library) token initialized using the `TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA` Token Program on the Solana blockchain. The `Solvin Inu` token has a fixed supply of 1,000,000,000 tokens since the mint authority is the `System Program`. This ensures a stable and unchangeable total supply, enhancing its value proposition within the ecosystem. The token uses the image URL https://arweave.net/MeMo948F1FViEReavpdcSfmzkf4oP9hmaEwILCK0Ot0, which points to an image hosted on Arweave, a decentralized storage service. This image is used for visual identification of the token across various platforms and marketplaces. Overall, the `Solvin Inu` token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Transactions

At the time of this report, the transactions of the Solvin Inu token are as follows:

Signature	Block	Time	Instructions	By	Fee (SOL)
61oxnBuDW2CUYvrQh kUyvZrhE4seUWo3r9o V9tRfjtJP2HnHocgMk pKn7ge3k8TxFdAnVZ 1gPkvdTyB2nrVneSjc	#247400096	02-11-2024 03:45:52	Compute-Budge t-Set-Compute- Unit-Price, Compute-Budge t-Set-Compute- Unit-Limit, CreateAssociate dAccount	Dkzpzc...AQi yt9	0.000021
py2aC8PrzP4qeExoho rD69v72DqYc87oEfQz LD12AjnPJwAr6K4w3 ESg8z1WhKrTZrHpeW zm7ZJj51fmB2H1uaY	#246159978	02-04-2024 23:26:57	Compute-Budge t-Set-Compute- Unit-Price, Compute-Budge t-Set-Compute- Unit-Limit, SetAuthority, Sol-Transfer	56J42z...ue m6ri	0.000045
5jLfybDg8CHcCqJgvs xRZDLoy1Bqd2aGKjrh C8qbmoh3GWwMzGg zcUtFpeoPCpPYVZZ8 ECZdC8yzTM6Qfqwm RUzR	#246157242	02-04-2024 23:06:34	Compute-Budge t-Set-Compute- Unit-Price, Compute-Budge t-Set-Compute- Unit-Limit, SetAuthority, Sol-Transfer	56J42z...ue m6ri	0.000045
66PsRdFB4Sackmzde eNVAVyPH5g1ZexRAX HZED1hsFtnkskAK9Yn	#246153251	02-04-2024 22:37:44	CreateAccount, InitializeMint, CreateAssociate	56J42z...ue m6ri	0.00001

[va3WdpMgYvLBqVgwdgyJaFEzgVmb9nhfwtHi](#)			dAccount, MintTo, Create-Metadata-Account-V3, Sol-Transfer		

Holders

At the time of this report, the distribution of Solvin Inu token holders is as follows:

#	Token Account	Quantity	Percentage
1	BwUP4w82YbHgRP4DvkAHbS8kcKk8U7wBT8d7xbzKebti	1,000,000,000	100%

Metadata

MetaplexMetadata

The Metaplex Metadata provides details of the characteristics of the `Solvin Inu` token which uses the `SOLVIN` symbol, 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 `updateAuthority` field is designated to the account capable of modifying this metadata, identified by the public key `56J42zwJT3inEMfLudbfUwSACwrpTRhuBn1Vt3uem6ri` . Furthermore, the mint attribute specifies the account `EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc` authorized for the initial token mint.

```
{
  "key": 4,
  "updateAuthority": "56J42zwJT3inEMfLudbfUwSACwrpTRhuBn1Vt3uem6ri",
  "mint": "EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc",
  "data": {
    "name": "Solvin Inu",
    "symbol": "SOLVIN",
    "uri":
"https://arweave.net/wc-93CIjXcfCg1f2jnVkZIOOv7dkat-DDFun9uvVayQ",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 0,
  "editionNonce": 254,
  "tokenStandard": 2,
  "name": "Solvin Inu",
  "symbol": "SOLVIN",
  "description": "Solvin Inu AI is Bonk and Myro's brave squirrel
friend.",
  "image":
"https://arweave.net/MeMo948F1FViEReavpdcSfmzkf4oP9hmaEwILCK0Ot0",
  "extensions": {
    "website": "https://www.solvinonsol.xyz",
    "twitter": "https://twitter.com/Solvinonsol",
    "telegram": "https://t.me/solvinonsol"
  }
}
```

Metadata description

The `data` section within the metadata discloses the asset's name as "Solvin Inu", its trading symbol as "SOLVIN", and a URI pointing to "https://arweave.net/wc-93CIjXcfCg1f2jnVkZIOOv7dkat-DDFun9uvVayQ". Notably, the asset imposes a seller fee of 0 basis points, indicating no transaction fee for trading was set in the deploying phase. The metadata indicates that the asset has not yet undergone its primary sale (`primarySaleHappened` : 0) and is marked as immutable (`isMutable` : 0), not allowing for future changes to the metadata. An `editionNonce` of `254` denotes a unique edition, and the asset conforms to a specific token standard within the Solana network (`tokenStandard` : 2), ensuring its compatibility and standardization across the platform. This detailed metadata structure offers a comprehensive overview of "Solvin Inu's" key features and its operational framework within the Metaplex ecosystem on Solana.

Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	56J42zwJT3inEMfLudbfUwSACwrpTRhuBn1Vt3uem6ri	The public key that is allowed to update this account
mint	EfrUj6MxYvfFuPHySWkdrazQXiPsTRYDHKbmPHjgVrRc	The public key of the Mint Account it derives from
Name	Solvin Inu	The on-chain name of the token
Symbol	SOLVIN	The on-chain symbol of the token

Uri	https://arweave.net/wc-93CljXcfCg1f2jnVkZIOOv7dkat-DDFun9uvVayQ	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	0	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	0	A boolean indicating if the metadata account can be updated. Once flipped to False, it cannot ever be True again
editionNonce	254	Unique identifier for this edition
tokenStandard	2	The standard of the token
description	Solvin Inu AI is Bonk and Myro's brave squirrel friend.	Description of the asset
image	https://arweave.net/MeMo948F1FViEReavpdcSfmzkf4oP9hmaEwlLCK0Ot0	URI pointing to the asset's logo.
extensions	website, twitter, telegram	Extensions of the asset

Findings Breakdown

	Critical	0
	Medium	0
	Minor / Informative	1

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

CR - Centralization Risk

Criticality	Minor / Informative
Location	Solvin Inu
Status	Unresolved

Description

The token account `BwUP4w82YbHgRP4DvkAHbS8kcKk8U7wBT8d7xbzKebti`, holds the entire supply of the Solvin Inu token. Following the deployment, all tokens were transferred to this single account. Consequently, this address now owns the entire token supply, amounting to 1,000,000,000 `Solvin Inu`. This concentration of the entire token supply in one address raises significant concerns about centralization within the token's ecosystem. Such a scenario creates a risk of market manipulation and could lead to other adverse effects, potentially undermining the token's decentralized nature and the overall health of its ecosystem.

Token Account	Quantity	Percentage
BwUP4w82YbHgRP4DvkAHbS8kcKk8U7wBT8d7xbzKebti	1,000,000,000	100%

Recommendation

It is recommended to distribute the tokens more broadly to achieve a more decentralized token holding structure. This can mitigate the risks associated with centralization and ensure a more stable and secure ecosystem for all participants. If the new address consists of a team's wallet address, then the team should carefully manage the private keys of that account. We strongly recommend implementing a robust security mechanism to prevent a single user from accessing the contract admin functions, such as a multi-sign wallet so that many addresses will confirm the action.

Summary

The Solvin Inu token, built on the Solana network, implements a robust smart contract structure that was initialized using the Token program, with analysis revealing no critical issues.

The contract's mint authority has been renounced, by transferring ownership to System Program. The information regarding the transaction can be accessed through the following link:
https://solscan.io/tx/py2aC8PrzP4qeExohorD69v72DqYc87oEfQzLD12AjnPJwAr6K4w3ESg8z1WhKrTZrHpeWzm7ZJj51fmB2H1uaY.

The contract's freeze authority has also been renounced. The information regarding the transaction can be accessed through the following link:
https://solscan.io/tx/5jLfybDg8CHcCqJgvsxRZDLoy1Bqd2aGKjrhC8qbmoh3GWwMzGgzcUtFpeoPCpPYVZZ8ECZdC8yzTM6QfqwmRUzR.

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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

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