



Cyberscope

Audit Report

Smirk Of Meme

April 2024

Network SOL

Type SPL-Token

Address FkGao2prUUdadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn

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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
●	UA	Update Authority	Unresolved

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Review

Network	SOL
Explorer	https://solscan.io/token/FkGaa2prUUdadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn
Fixed Supply	10,000,000,000
Website	https://smirkofmeme.club/
Social Channels	https://twitter.com/smirkofmeme , https://t.me/smirkofmeme
Token name	Smirk Of Meme (SOM)
Token address	FkGaa2prUUdadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn
Owner Program	Token Program
Update Authority	4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGx
Decimals	9
Signature	5dpEHSYCPpHuWhg2L6rKNtyZewjVWDXzf28f3kTWH1XXkHrfAtnWdB8rXxR4dz7VWsi4LmFLZXqUTXVzPucRtyXB
Block	#257672338
Deploy Time	April 01, 2024 04:45:50 +UTC
By	4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGx
MintTokens Authority	Revoked
FreezeAccount Authority	None
Metadata File Type	JSON
Name	Smirk Of Meme

Symbol	SOM
Image	https://photos.pinksale.finance/file/pinksale-logo-upload/1711946549461-97fbbd82ae6ce55fe4fd5640cb1f4184.png
Total Transfers (At the time of the report)	1
Total Transactions (At the time of the report)	2
Total Holders (At the time of the report)	2

Audit Updates

Initial Audit	01 Apr 2024
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Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/FkGaa2prUUdadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn#metadata

Overview

The **Smirk Of Meme** token symbolized as **SOM**, is a distinguished SPL (Solana Program Library) token initialized using the **TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA** Token Program on the Solana blockchain. The **Smirk Of Meme** token has a fixed supply of **10,000,000,000** tokens since the mint has been disabled. This ensures a stable and unchangeable total supply, enhancing its value proposition within the ecosystem. The token uses the URL

<https://nftstorage.link/ipfs/bafkreibwulrqt2mfq5uqmptvuxrmhc3sbgocxefi6cfby3i3x3f6e6usau>, which points to a decentralized storage service while the

<https://photos.pinksale.finance/file/pinksale-logo-upload/1711946549461-97fbbd82ae6ce55fe4fd5640cb1f4184.png> image is used for visual identification of the token across various platforms and marketplaces. Overall, the **Smirk Of Meme** token is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Transfers

At the time of this report, the transfers of "Smirk Of Meme" token are as follows:

Signature	Time (UTC)	Type	From	To	Amount
5vQr9NaHERnN s26v6ir...	04-01-2024 04:53:40	Spl-Transfer	4Fufv5...nrtQG X	CSqCP9...1 fkrMW	7,422,500,00 0

Transactions

At the time of this report, the transactions of "Smirk Of Meme" token are as follows:

Signature	Block	Time (UTC)	Instructions	By	Fee (SOL)
5vQr9NaHERnNs26v6irXppqiRDJ3G...	#257673364	04-01-2024 04:53:40	Compute-Budget-Set -Compute-Unit-Limit 2+	4Fufv5...nrtQGX	0.000035
5dpEHSYCPpHuWhg2L6rKNtyZewjV...	#257672338	04-01-2024 04:45:50	Compute-Budget-Set -Compute-Unit-Limit 8+	4Fufv5...nrtQGX	0.00281

Holders

At the time of this report, the holders of "Smirk Of Meme" token are as follows:

#	Token Account	Account	Quantity	Percentage
1	2vut3S...HPN7qU	CSgCP9...1fkrMW	7,422,500,000	74.2250%
2	3iM83o...qMm8C8	4Fufv5...nrtQGx	2,577,500,000	25.7750%

Metadata

MetaplexMetadata

The Metaplex Metadata provides details of the characteristics of the `Smirk Of Meme` token which uses the `SOM` 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 update authority attribute specifies the account

`4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGx` authorized to modify the metadata.

The mint attribute specifies the account

`FkGaa2prUUdadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn` authorized for the initial token mint.

```
{
  "key": 4,
  "updateAuthority": "4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGX",
  "mint": "FkGaa2prUudadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn",
  "data": {
    "name": "Smirk Of Meme",
    "symbol": "SOM",
    "uri":
      "https://nftstorage.link/ipfs/bafkreibwulrqt2mfq5uqmpvtvuxrmhc3sbgocxefi6cfby3i3x3f6e6usau",
    "sellerFeeBasisPoints": 0,
    "creators": [
      {
        "address": "4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGX",
        "verified": 1,
        "share": 100
      }
    ]
  },
  "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 255,
  "tokenStandard": 2,
  "name": "Smirk Of Meme",
  "symbol": "SOM",
  "description": "Building a meme empire on Solana's blockchain | SmirkofMeme - Where every smirk is a transaction 🌐 | #Solana #Humor Revolution",
  "image":
    "https://photos.pinksale.finance/file/pinksale-logo-upload/1711946549461-97fbbd82ae6ce55fe4fd5640cb1f4184.png",
  "creator": {
    "name": "PinkSale",
    "site": "https://pinksale.finance"
  },
  "extensions": {
    "telegram": "https://t.me/smirkofmeme",
    "twitter": "https://twitter.com/smirkofmeme",
    "website": "https://smirkofmeme.club/"
  }
}
```

Metadata description

The data section within the metadata discloses the asset's name as `Smirk Of Meme`, its trading symbol as `SOM`, and the URI pointing to "<https://nftstorage.link/ipfs/bafkreibwulrqt2mfq5uqmpvtvuxrmhc3sbgocxefi6cfby3i3x3f6e6usau>". 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 mutable (`isMutable` : 1), allowing for future changes to the metadata. An `editionNonce` of 255 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 `Smirk Of Meme` 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	4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGx	The public key that is allowed to update this account
mint	FkGaa2prUUDadUAEGBLjy9JhF6cTSsBz6r3GGD14zvYn	The public key of the Mint Account it derives from
name	Smirk Of Meme	The on-chain name of the token
symbol	SOM	The on-chain symbol of the token
uri	https://nftstorage.link/ipfs/bafkreibwulrqt2mfq5uqmpvtvuxrmhc3sbgocxefi6cfby3i3x3f6e6usau	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
creators	address, verified, share	Creator of the asset
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	1	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
description	Building a meme empire on Solana's blockchain SmirkofMeme - Where every smirk is a transaction 🌐 #Solana #Humor Revolution	The description of the asset
image	https://photos.pinksale.finance/file/pinksale-logo-upload/1711946549461-97fbbd82ae6ce55fe4fd5640cb1f4184.png	URL pointing to the asset's logo
creator	name, site	Creator of the asset
extensions	telegram, twitter, website	Extensions of the asset

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

UA - Update Authority

Criticality	Medium
Status	Unresolved

Description

The contract is set up in a way that grants the update authority, with the address `4Fufv5ZW12jLMfhRXzPV3Uk43YmPAv7tcDt5qgnrtQGX`, 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 Smirk Of Meme token, built on the Solana network, implements a robust smart contract structure that was initialized using the Token program, with analysis revealing 1 medium issue.

The contract's mint authority has been renounced. The information regarding the transaction can be accessed through the following link:

<https://solscan.io/tx/5dpEHSYCPpHuWhg2L6rKNtyZewjVWDXzf28f3kTWH1XXkHrfAtnWdB8rXxR4dz7VWsi4LmFLZXqUTXVzPucRtyXB>

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About Cyberscope

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>