



Cyberscope

Audit Report

Dawkoins

March 2024

Network SOL

Type SPL-Token

Address 7cb67ev3jvBKoAH1tnVM8FL8WfQ96sa2TYByEXajqx8N

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
●	UA	Update Authority	Unresolved

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Review

Network	SOL
Explorer	https://solscan.io/token/7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N
Current Supply	989,500,118
Token name	Dawkoins (DAW)
Token address	7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N
Owner Program	Token Program
Authority	4p1BsiAYKftxVAG6tqXZXZ62kHGNYo3mmP9ThcXSSpQC
Decimals	6
Signature	https://solscan.io/tx/FZvinAZZHaYtGzxG6hdRW3u9yhiRCmQNqxzyGqzuskcJ5aqwsPx9c8tA4D8PiKZBKwv4FLVP9TqciThUDFP6oUH
Block	#254558118
Deploy Time	March 16, 2024 18:53:39 Eastern European Standard Time
Instructions	Compute-Budget-Set-Compute-Unit-Price, Compute-Budget-Set-Compute-Unit-Limit, Create Account, InitializeMint, Create Metadata Account V3, Create Associated Account, MintTo
By	4p1BsiAYKftxVAG6tqXZXZ62kHGNYo3mmP9ThcXSSpQC
Metadata File Type	JSON
Name	Dawkoins
Symbol	DAW

Image

<https://bafkreibbwceptt6w7t6v2dcjkwkkn6mkgabivf76qpbfim5uocgv2j56ey.ipfs.nftstorage.link>

Audit Updates

Initial Audit

31 Mar 2024

Source Files

Filename

JSON

Metadata/JSON

<https://solscan.io/token/7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N#metadata>

Overview

The `Dawkoins` token, represented by the symbol `DAW`, is a notable SPL (Solana Program Library) token created under the `TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA` Token Program on the Solana blockchain. The minting authority for the Dawkoins token has been renounced.

The Dawkoins token boasts a unique identifier mint of `7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N` and has updated its visual representation with the image URL: <https://bafkreibbwceptt6w7t6v2dcjkwkkn6mkgabivf76qpbfim5uocgv2j56ey.ipfs.nftstorage.link>. This image serves as the token's visual identity across various platforms and marketplaces, enhancing its recognition within the ecosystem. Overall, the `Dawkoins` 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 latest 5 transfers of `Dawkoins` token are as follows:

Signature	Time	Type	From	To	Amount
3sNWdLpZP pEML4LSjr	03-31-2024 07:58:34	Spl-Transfer	6v3nv8...Cn2z mV	4dQuuf...P7ju LS	1,192.92
3sNWdLpZP pEML4LSjr	03-31-2024 07:58:34	Spl-Transfer	Raydium Authority V4	6v3nv8...Cn2z mV	1,192.92
4C7QdAQNL EHR1KP2	03-31-2024 07:57:41	Spl-Transfer	Raydium Authority V4	6U91aK...vB2t bB	0.017839
4C7QdAQNL EHR1KP2	03-31-2024 07:57:41	Spl-Transfer	6U91aK...vB2 tbB	4dQuuf...P7ju LS	0.017839
oHidExK7Tv v6EwHb3P	03-31-2024 07:57:10	Spl-Transfer	2MFoS3...CP Cj3h	5qSBrz...YeyX qz	7,135.1

Transactions

At the time of this report, the latest 5 transactions of `Dawkoins` token are as follows:

Signature	Block	Time	Instructions	By	Fee (SOL)
5Z4Z4iL7UZ RMTJhPBLv	#257503865	03-31-2024 07:57:51	Compute-Bu dget-Set-Co mpute-Unit-L imit (8+)	5qSBrz...Ye yXqz	0.000110079
4Ye28o1qNK hGxsosyqE	#257503865	03-31-2024 07:57:51	Compute-Bu dget-Set-Co mpute-Unit-L imit (8+)	5qSBrz...Ye yXqz	0.000110152
61PK56Cgiw 8ca3hekMQ	#257503824	03-31-2024 07:57:33	Compute-Bu dget-Set-Co mpute-Unit-L imit (8+)	5qSBrz...Ye yXqz	0.00011
5jfCXnMnj5h EnKjrD56G	#257503779	03-31-2024 07:57:11	Compute-Bu dget-Set-Co mpute-Unit-L imit (8+)	5qSBrz...Ye yXqz	0.000110257
AZ8F4dCLv Gx2zk12FMd	#257503778	03-31-2024 07:57:11	Compute-Bu dget-Set-Co mpute-Unit-L imit (8+)	5qSBrz...Ye yXqz	0.000110311

Holders

At the time of this report, the top 5 holders of `Dawkoins` token are as follows:

#	Token Account	Quantity	Percentage
1	85P13n...EzewVc	39,812,716.585894	4.0235%
2	GaJ1VG...ZvRnjy	39,256,424.737947	3.9672%
3	F9FaX2...ckLAus	30,000,000	3.0318%
4	CgNF1d...aeBWFJ	28,952,180.559867	2.9259%
5	DrZd41...4Ve9s2	24,863,382.938192	2.5127%

Metadata

MetaplexMetadata

The Metaplex Metadata for the `Dawkoins` token, symbolized as `DAW`, enriches the Solana blockchain with a unique digital asset, meticulously designed for integration with the Metaplex protocol. This metadata is pivotal for the asset's functionality within the ecosystem, detailing essential attributes that facilitate its recognition and utility. The **updateAuthority** for Dawkoins is vested in the account with the public key `4p1BsiAYKftxVAG6tqXZXZ62kHGNYo3mmP9ThcXSSpQC`, empowering it with the authority to change the metadata as necessary. The mint attribute specifies the account `7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N` authorized for the initial token mint.

```
{
  "key": 4,
  "updateAuthority": "4p1BsiAYKftxVAG6tqXZXZ62kHGNYo3mmP9ThcXSSpQC",
  "mint": "7cb67ev3jvBKaAH1tnVM8FL8WfQ96sa2TYByEXajqx8N",
  "data": {
    "name": "Dawkoins",
    "symbol": "DAW",
    "uri":
      "https://bafkreibbwceptt6w7t6v2dcjkwkkn6mkgabivf76qpbfi5uocgv2j56ey.ipfs.nftstorage.
      link",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 253,
  "tokenStandard": 2,
  "name": "Dawkoins",
  "symbol": "DAW",
  "description": "X:https://x.com/DawkoinsOnSol ",
  "image":
    "https://bafkreibbg7sq5rnnvievhrocn56kiwxw7yp5ul2gqi7sfs6purdmrq3gu.ipfs.nftstorage.
    link"
}
```

Metadata Description

The “data” section within the metadata discloses the asset's name as `Dawkoins`, its trading symbol as `DAW`, and a URI pointing to <https://bafkreibbwceptt6w7t6v2dcjkwkkn6mkgabivf76qpbfim5uocgv2j56ey.ipfs.nftstorage.link>. 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 253 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 `Dawkoins`'s key features and its operational framework within the Metaplex ecosystem on Solana.

Within the data segment of the Dawkoins token's metadata, key characteristics such as the asset's name `Dawkoins`, its symbol `DAW`, and a URI linking to its visual representation are disclosed. This URI, <https://bafkreid3g3jezt4xdmz3k5w4g45fdcvnp3cqkwhougtyrr65it6pltntgq.ipfs.nftstorage.link>, serves as a gateway to the asset's digital identity, enhancing its visibility and accessibility. The asset enforces a zero seller fee basis points policy, indicating an absence of transaction fees for trades. The metadata further reveals that the primary sale of the asset has not occurred (`primarySaleHappened: 0`), and its mutable status (`isMutable: 1`) allows for future modifications. An `editionNonce` of 253 signifies its unique edition, and adherence to the (`tokenStandard: 2`) ensures its compliance and interoperability within the Solana ecosystem. This comprehensive metadata encapsulates the Dawkoins token's foundational aspects, providing a clear and detailed overview of its operational parameters and its place within the broader Metaplex and Solana frameworks.

Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	4p1BsiAYKftxVAG6tqXZXZ62 kHGNYo3mmP9ThcXSSpQC	The public key that is allowed to update this account
mint	7cb67ev3jvBKaAH1tnVM8FL 8WfQ96sa2TYByEXajqx8N	The public key of the Mint Account it derives from
name	Dawkoins	The on-chain name of the token
symbol	DAW	The on-chain symbol of the token

uri	https://bafkreibbwceptt6w7t6v2dcjkwkkn6mkgabivf76qpbfi5uocgv2j56ey.ipfs.nftstorage.link	<p>The URI to the external metadata.</p> <p>This URI points to an off-chain JSON file that contains additional data following a certain standard</p>
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sellerFeeBasisPoints	0	<p>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</p>
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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	253	Unique identifier for this edition
tokenStandard	2	The standard of the token
image	https://bafkreibbg7sq5rnvievhrocn56kiwxw7yp5ul2gqi7sf6purdmrq3gu.ipfs.nftstorage.link	URL pointing to the asset's logo

description	X: https://x.com/DawkoinsOnSol	The description of the asset
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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
Location	Dawkoins
Status	Unresolved

Description

The contract is set up in a way that grants the update authority, with the address `4p1BsiAYKftxVAG6tqXZXZ62kHGNYo3mmP9ThcXSspQC`, 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.

Summary

The Dawkoins 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/5hViQgaAPZNC48pXzma2tA3CCmRyCgtoJZw7qCvXKUtiFy8fjeWZrXm1WojrupwWV38CwyTXyuCQrvpzG4cv79Vt>.

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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

<https://www.cyberscope.io>