

# Audit Report PaidToken

June 2024

Network SOL

Type SPL-Token

Address 3VFrov5jEgZrLruzsRKrmJ5A4vKDY3u7Mtuui74ZtQtR

Audited by © cyberscope



# **Analysis**

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit (Transfer Fee Authority)	Passed
•	MT	Mints Tokens (Mint Authority)	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses (Freeze Authority)	Passed



# **Diagnostics**

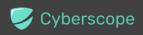
CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	UA	Update Authority	Unresolved
•	ITA	Initial Token Allocation	Unresolved



## **Table of Contents**

Analysis	1
Diagnostics	2
Table of Contents	3
Review	4
Audit Updates	4
Overview	5
Metadata	6
Findings Breakdown	9
MT - Mint Tokens (Mint Authority)	10
Description	10
BC - Blacklists Addresses (Freeze Authority)	11
Description	11
UA - Update Authority	12
Description	12
Recommendation	12
ITA - Initial Token Allocation	13
Description	13
Recommendation	13
Summary	14
Disclaimer	15
About Cyberscope	16

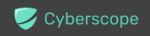


## Review

Network	SOL
Explorer	https://solscan.io/token/3VFrov5jEgZrLruzsRKrmJ5A4vKDY3u7 Mtuui74ZtQtR
Fixed Supply	210,000,000
Token Address	3VFrov5jEgZrLruzsRKrmJ5A4vKDY3u7Mtuui74ZtQtR
Token name	PAIDTOKEN (PAID)
Owner Program	Token Program
Decimals	9
Metadata File Type	JSON
Badge Eligibility	Yes

## **Audit Updates**

Initial Audit 01 June 2024
----------------------------



## **Overview**

The PAIDTOKEN token symbolized as PAID, is a distinguished SPL (Solana Program Library) token initialized using the TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA Token Program on the Solana blockchain, with a supply of 210,000,000 tokens. The token uses the URL

https://node1.irys.xyz/MOUf-Vh5fsU9yUuZ2tGqvyscOguFIEScx919Wfkan0s, which points to a decentralized storage service, while the image

https://node1.irys.xyz/KmD8V6atJvASrpEsUhM4DxTGViFodRwTBMC7d5TTTGs 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.



### Metadata

The Metaplex Metadata provides details of the characteristics of the PAIDTOKEN 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.

Specifically, the metadata was initiated by declaring the 2wsnMCoCQ46pmw6bbKX7fp7qV3Q4ov7cXmfmJhmjMkqc as the update authority attribute, which points to the account authorized to modify the metadata. The mint attribute specified the account 3VFrov5jEgZrLruzsRKrmJ5A4vKDY3u7Mtuui74ZtQtR authorized for the initial token mint. 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 is marked as mutable since isMutable is 1, 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.

```
{
  "key": 4,
  "updateAuthority": "2wsnMCoCQ46pmw6bbKX7fp7qV3Q4ov7cXmfmJhmjMkqc",
  "mint": "3VFrov5jEgZrLruzsRKrmJ5A4vKDY3u7Mtuui74ZtQtR",
  "data": {
      "name": "PAIDTOKEN",
      "symbol": "PAID",
      "uri":
  "https://node1.irys.xyz/MOUf-Vh5fsU9yUuZ2tGqvyscOguFlEScx919Wfkan0s",
      "sellerFeeBasisPoints": 0
  },
   "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 255,
  "tokenStandard": 2
}
```



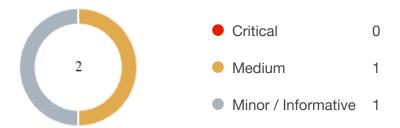
Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	2wsnMCoCQ46pmw6bbKX7f p7qV3Q4ov7cXmfmJhmjMkq c	The public key that is allowed to update this account
mint	3VFrov5jEgZrLruzsRKrmJ5A4 vKDY3u7Mtuui74ZtQtR	The public key of the Mint Account it derives from
name	PAIDTOKEN	The on-chain name of the token
symbol	PAID	The on-chain symbol of the token
uri	https://node1.irys.xyz/MOUf- Vh5fsU9yUuZ2tGqvyscOguFl EScx919Wfkan0s	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	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



# **Findings Breakdown**



Sev	erity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	1	0	0	0
	Minor / Informative	1	0	0	0



## **MT - Mint Tokens (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.

The information regarding the revoke transaction of the mint authority can be accessed through the following link:

https://solscan.io/tx/irmgWs8jHgKRbnzYibuciDwc78KTmTRCixBy2vkVEAJQ7gysdAx5YVY kSVrEmkpdZTQdpdotJYZcZe4pGKiGYQC.



#### **BC** - Blacklists Addresses (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.

The information regarding the revoke transaction of the freeze authority can be accessed through the following link:

https://solscan.io/tx/irmgWs8jHgKRbnzYibuciDwc78KTmTRCixBy2vkVEAJQ7gysdAx5YVY kSVrEmkpdZTQdpdotJYZcZe4pGKiGYQC.



### **UA - Update Authority**

Criticality	Medium
Status	Unresolved

#### Description

The contract is set up in a way that grants the update authority, with the address 2wsnMCoCQ46pmw6bbKX7fp7qV3Q4ov7cXmfmJhmjMkqc , 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-immutible-solana-programs#remove-the-update-authority-of-a-solana-program



#### **ITA - Initial Token Allocation**

Criticality	Minor / Informative
Status	Unresolved

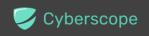
### Description

The account EMYWCu5fxx22Lczd6m59edhoTjYYahNtvmrBaTCsXNm9 holds a large portion of total supply. Consequently, at the time of the report, this address owns 100.00% of the entire token supply, amounting to 210,000,000 PAID. This concentration of the entire token supply in some addresses 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	Percenta ge
EMYWCu5fxx22Lczd6m59edhoTjYYahNtvmrBaTCsXN m9	210,000,0 00	100.00%

#### 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 addresses consist 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 PAIDTOKEN 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.

The token program analysis reported that the update authority privileges have not yet been revoked. This means that the token's metadata, including essential attributes like the token's name, symbol, description, and image, remains vulnerable to modification.



## **Disclaimer**

The information provided in this report does not constitute investment, financial or trading advice and you should not treat any of the document's content as such. This report may not be transmitted, disclosed, referred to or relied upon by any person for any purposes nor may copies be delivered to any other person other than the Company without Cyberscope's prior written consent. This report is not nor should be considered an "endorsement" or "disapproval" of any particular project or team. This report is not nor should be regarded as an indication of the economics or value of any "product" or "asset" created by any team or project that contracts Cyberscope to perform a security assessment. This document does not provide any warranty or guarantee regarding the absolute bug-free nature of the technology analyzed, nor do they provide any indication of the technologies proprietors' business, business model or legal compliance. This report should not be used in any way to make decisions around investment or involvement with any particular project. This report represents an extensive assessment process intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.

## **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