

Audit Report **SolSpend**

March 2024

Network SOL

Type SPL-Token

Address 3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec

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Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Unresolved
•	MT	Mints Tokens	Unresolved
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Diagnostics

CriticalMediul	m Minor / Informative
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Severity	Code	Description	Status
•	UA	Update Authority	Unresolved



Table of Contents

Analysis	1
Diagnostics	2
Table of Contents	3
Review	4
Audit Updates	5
Source Files	5
Overview	6
Transactions	7
Holders	8
Metadata	8
MetaplexMetadata	9
Metadata description	11
Findings Breakdown	14
ELFM - Exceeds Fees Limit	15
Description	15
Recommendation	15
MT - Mints Tokens	16
Description	16
Recommendation	16
UA - Update Authority	17
Description	
Recommendation	
Summary	
Disclaimer	
About Cyberscope	20



Review

Network	SOL
Explorer	https://solscan.io/token/3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec#txs
Current Supply	10,000,000.00
Website	www.SolSpend.io
Social Channels	https://twitter.com/SolSpend, https://t.me/SolSpend_Portal
Token name	SolSpend (SPEND)
Token address	3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec
Owner Program	<u>Token Program</u>
Authority	52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx
Decimals	5
Signature	4gJiiPYiAhgcSeY4aWJe9dTdkapArt2587Xbyw6ZPkAkyAnoJa3S 56s2urPKaBYKHf1WjNHRoKfxDC6L3tTrkxoN
Block	<u>#255816885</u>
Deploy Time	March 22, 2024 22:24:57 Eastern European Standard Time
Instructions	Compute-Budget-Set-Compute-Unit-Price, CreateAccount, Sol-Transfer, InitializeMint, CreateAssociatedAccount, MintTo, Create-Metadata-Account-V3
Ву	52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx
MintTokens Authority	52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx
FreezeAccount Authority	NONE



Metadata File Type	JSON
Name	SolSpend
Symbol	SPEND
Image	https://bafkreic4r56jg7fvkthkfzmmfy2z6ypfltqgowjvs44ghf32nh2 nz77tva.ipfs.nftstorage.link
Total Transfers (At the time of the report)	0
Total Transactions (At the time of the report)	1
Total Holders (At the time of the report)	1

Audit Updates

Initial Audit	23 Mar 2024

Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec#metadata



Overview

The Solspend token symbolized as SPEND, is a distinguished SPL (Solana Program Library) token initialized using the

TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA Token Program on the Solana blockchain. The minting authority for the SolSpend token has not been renounced and is held by the entity, identified as

52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx. This allows for potential adjustments to the token's supply, offering a level of control over its distribution. The token uses the image URL

https://bafkreic4r56jg7fvkthkfzmmfy2z6ypfltqgowjvs44ghf32nh2nz77tva.ipfs.nftstorage.link, which points to an image hosted on a decentralized storage service. This image is used for visual identification of the token across various platforms and marketplaces. Overall, the Solspend 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 "SolSpend" token are as follows:

Signature	Block	Time (UTC)	Instructions	Ву	Fee (SOL)
4gJiiPYiAhgcS eY4aWJe9d	#25581688 <u>5</u>	03-22-202 4 20:24:57	Compute-Budget-Set -Compute-Unit-Price, CreateAccount, Sol-Transfer, InitializeMint, CreateAssociatedAcc ount, MintTo, Create-Metadata-Ac count-V3	52K6QF. vfEUQx	0.00013



Holders

At the time of this report, the holders of "SolSpend" token are as follows:

#	Token Account	Quantity	Percentage
1	G5xZsUGmcnpt8HyE80GnvfVn hYXM2gibBmG5ZtdyRGAq	10,000,000	100.0000%



Metadata

MetaplexMetadata

The Metaplex Metadata provides details of the characteristics of the Solspend token which uses the SPEND 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

52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx. Furthermore, the mint attribute specifies the account

3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec authorized for the initial token mint.



```
"key": 4,
  "updateAuthority": "52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx",
  "mint": "3mp1MN5v7zdGXTvvcC9zUMoszMrh9pNdaCDkAQKc7Fec",
 "data": {
    "name": "SolSpend",
    "symbol": "SPEND",
"https://bafkreiee4afxw7jts4ccaqyk2g3exppkf5ru7u7hnusu7pq4qi62ataaze.ipfs.
nftstorage.link",
    "sellerFeeBasisPoints": 0
 },
  "primarySaleHappened": 0,
  "isMutable": 1,
 "editionNonce": 255,
 "tokenStandard": 2,
 "name": "SolSpend",
 "symbol": "SPEND",
  "image":
"https://bafkreic4r56jg7fvkthkfzmmfy2z6ypfltqgowjvs44ghf32nh2nz77tva.ipfs.
nftstorage.link",
 "description": "SolSpend is the first Non-KYC off ramp on Solana that
offers a wide variety of worldwide retailers via giftcards as well as
prepaid Mastercard and Visa cards. That allows users to pay direct with
Solana, while rewarding $SPEND Holders with the majority of the total
revenue generated. \n\nhttps://t.me/SolSpend Portal \n\nwww.SolSpend.Io",
  "extensions": {
    "website": "www.SolSpend.io",
    "twitter": "https://twitter.com/SolSpend",
   "telegram": "https://t.me/SolSpend Portal "
  } ,
  "tags": [],
  "creator": {
    "name": "SolSpend",
   "site": "https://www.solspend.io"
```



Metadata description

The data section within the metadata discloses the asset's name as SolSpend, its trading symbol as SPEND, and the URI pointing to

"https://bafkreiee4afxw7jts4ccaqyk2g3exppkf5ru7u7hnusu7pq4qi62ataaze.ipfs.nftstorage.li nk". 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 SolSpend 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	52K6QFiAqaz29nBLzWZtMt4U ooAJFX7kMRitEbvfEUQx	The public key that is allowed to update this account
mint	3mp1MN5v7zdGXTvvcC9zUMo szMrh9pNdaCDkAQKc7Fec	The public key of the Mint Account it derives from
name	SolSpend	The on-chain name of the token
symbol	SPEND	The on-chain symbol of the token
uri	https://bafkreiee4afxw7jts4cca qyk2g3exppkf5ru7u7hnusu7pq 4qi62ataaze.ipfs.nftstorage.link	The URI to the external metadata. This URI points to an off-chain JSON file that contains additional data following a certain standard



image	https://bafkreic4r56jg7fvkthkfz mmfy2z6ypfltqgowjvs44ghf32n h2nz77tva.ipfs.nftstorage.link	URL pointing to the asset's logo
sellerFeeBasisPo ints	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
primarySaleHap pened	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	SolSpend is the first Non-KYC off ramp on Solana that offers a wide variety of worldwide retailers via giftcards as well as prepaid Mastercard and Visa cards. That allows users to pay direct with Solana, while rewarding \$SPEND Holders with the majority of the total revenue generated. https://t.me/SolSpend_Portal	The description of the asset
	www.SolSpend.lo	



website	www.SolSpend.io	The website of the asset
twitter	https://twitter.com/SolSpend	The twitter of the asset
telegram	https://t.me/SolSpend_Portal	The telegram of the asset

Findings Breakdown



Sev	verity	Unresolved	Acknowledged	Resolved	Other
•	Critical	3	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	0	0	0	0



ELFM - Exceeds Fees Limit

Criticality	Critical
Location	SolSpend
Status	Unresolved

Description

The current metadata configuration of the token has the <code>isMutable</code> field set to <code>1</code>, which allows for future changes to the metadata. This enables the update authority to modify the <code>setTaxFeePercent</code> field, thereby adjusting the fee structure as desired. Consequently, the update authority may take advantage of it by setting the <code>setTaxFeePercent</code> variable to a high percentage value.

Recommendation

It is recommended to revoke the update authority's privileges. This action will prevent any future modifications to the metadata, including updates on fees, thereby ensuring that the setTaxFeePercent variable cannot be set to a disproportionately high value. Revoking these privileges effectively disables the ability to change the fees. One method to accomplish this is by adhering to the instructions provided in the guide available at Remove the Update Authority of a Solana Program



MT - Mints Tokens

Criticality	Critical
Location	SolSpend
Status	Unresolved

Description

The token is currently configured in a manner that grants the min authority account, identified by the \$52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx address, the exclusive capability to mint new tokens at will. This unrestricted minting authority poses a significant risk of token inflation for the \$SolSpend token. If the minting capability is exercised without stringent controls or limitations, it could lead to a scenario where the supply of \$SolSpend tokens is significantly increased in a short period. Such an action would dilute the value of existing tokens, potentially leading to a loss of trust among investors and users, and ultimately, a decrease in the token's market value. This highlights a critical vulnerability in the token's economic model, where the potential for unchecked token creation could result in highly inflated token supply, undermining the asset's stability and value proposition.

Recommendation

It is recommended to revoke the mint authority to mitigate the risk of unchecked token inflation. Implementing a fixed supply model could significantly enhance the token's economic security and investor confidence. By removing or significantly restricting the ability to mint new tokens, the SolSpend token can maintain a stable supply, preserving its value and ensuring a fair and predictable market for all stakeholders.



UA - Update Authority

Criticality	Critical
Location	SolSpend
Status	Unresolved

Description

The contract is currently configured in a manner that allows the update authority, identified by the address 52K6QFiAqaz29nBLzWZtMt4UooAJFX7kMRitEbvfEUQx , to retain privileges that enable the modification of crucial metadata fields. The failure to revoke the update authority leaves the token vulnerable to potential risks, as the designated address retains the capability to make changes to the metadata. This oversight could lead to unauthorized or malicious modifications that might compromise the integrity and intended functionality of the token.

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 SolSpend token, built on the Solana network, implements a robust smart contract structure that was initialized using the Token program, with analysis revealing 3 critical issues.



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The Cyberscope team

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