



Cyberscope

Audit Report

PixelPulse Ai

March 2024

Network SOL

Type SPL-Token

Address Gjpud3xeAL5cWSLfHQX6m36A4kCBXRqRhsNq8Avrhrz4

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

Table of Contents

Analysis	1
Diagnostics	2
Table of Contents	3
Review	4
Audit Updates	5
Source Files	5
Overview	6
Transfers	7
Transactions	8
Holders	9
Metadata	10
MetaplexMetadata	10
Metadata Description	12
Findings Breakdown	18
UA - Update Authority	19
Description	19
Recommendation	19
Summary	20
Disclaimer	21
About Cyberscope	22

Review

Network	SOL
Explorer	https://solscan.io/token/Gjpud3xeAL5cWSLfHqX6m36A4kCBXRqRhsNq8Avrhrz4
Current Supply	1,000,000,000
Token name	PixelPulse AI (PXP)
Token address	Gjpud3xeAL5cWSLfHqX6m36A4kCBXRqRhsNq8Avrhrz4
Owner Program	Token Program
Authority	HhCLFBpryLJdobPccwZvGNbMWo27u8qYZseFs3B2e7PU
Decimals	9
Signature	https://solscan.io/tx/4zWWCvxDCLaoaSXPFg4feT7HZC2aW4MACPiKUxiSe1ZiqHpdWrsZic6QPyK9negQSKvN8sYbmUX8bFos6JusNwfq
Block	#256846464
Deploy Time	March 28, 2024 01:14:31 Eastern European Standard Time
Instructions	Compute-Budget-Set-Compute-Unit-Price, CreateAccount, SOL Transfer, InitializeMint, Create Associated Account, MintTo, Create Metadata Account V3, SetAuthority
By	HhCLFBpryLJdobPccwZvGNbMWo27u8qYZseFs3B2e7PU
Metadata File Type	JSON
Name	PixelPulse AI
Symbol	PXP

Image	https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.ipfs.nftstorage.link
Total Transfers (At the time of the report)	1
Total Transactions (At the time of the report)	5
Total Holders (At the time of the report)	2

Audit Updates

Initial Audit	30 Mar 2024
----------------------	-------------

Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/Gjpud3xeAL5cWSLfHQX6m36A4kCBXRqRhsNq8Avrhrz4#metadata

Overview

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

The PixelPulse AI token boasts a unique identifier mint of `Gjpud3xeAL5cWSLfHQX6m36A4kCBXRqRhsNq8Avrhrz4` and has updated its visual representation with the image URL: <https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.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 `PixelPulse AI` 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 `PixelPulse AI` token are as follows:

Signature	Time	Type	From	To	Amount
<code>5Zh66V8Dif</code> <code>DoBXxM11</code>	03-28-2024 19:24:38	Spl-Transfer	<code>HhCLFB...B2</code> <code>e7PU</code>	<code>8YFvZp...Dz</code> <code>UD8Y</code>	199,975,000

Transactions

At the time of this report, the transactions of `PixelPulse AI` token are as follows:

Signature	Block	Time	Instructions	By	Fee (SOL)
5Zh66V8DifD oBXxM11p8L 9DGWfan	#257015948	03-28-2024 19:24:38	Compute-Bu dget-Set-Co mpute-Unit- Price (2+)	HhCLFB... B2e7PU	0.000924091
Yd79R52MGc vnNTx4WcGK gywbk	#257014276	03-28-2024 19:12:42	Compute-Bu dget-Set-Co mpute-Unit- Price (2+)	HhCLFB... B2e7PU	0.000469546
3v1VjUG7JJx 3omt4kzNWs SfFdoy	#256853711	03-28-2024 00:06:16	Compute-Bu dget-Set-Co mpute-Unit- Price (2+)	HhCLFB... B2e7PU	0.000035
5KntFwXMLfd 7h9pc8bz5rfx YZoA	#256852200	03-27-2024 23:55:39	Compute-Bu dget-Set-Co mpute-Unit- Price (2+)	HhCLFB... B2e7PU	0.000469546
4zWWCvxDC LaoaSXPFg4f eT7HZC2	#256846464	03-27-2024 23:14:31	Compute-Bu dget-Set-Co mpute-Unit- Price (2+)	HhCLFB... B2e7PU	0.00015

Holders

At the time of this report, the holders of `PixelPulse AI` token are as follows:

#	Token Account	Quantity	Percentage
1	45Vgx7...7TkGSx	800,025,000	80.0025%
2	9Xr7LT...rxq7ZN	199,975,000	19.9975%

Metadata

MetaplexMetadata

The Metaplex Metadata for the `PixelPulse AI` token, symbolized as `PXP`, 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 PixelPulse AI is vested in the account with the public key `HhCLFBpryLJdobPccwZvGNbMWO27u8qYZseFs3B2e7PU`, empowering it with the authority to change the metadata as necessary. The mint attribute specifies the account `Gjpud3xeAL5cWSLfHQX6m36A4kCBXRqRhsNq8Avrhrz4` authorized for the initial token mint.

```
{
  "key": 4,
  "updateAuthority": "HhCLFBpryLJdobPccwZvGNbMMWo27u8qYZseFs3B2e7PU",
  "mint": "Gjpu3xeAL5cWSLfhQX6m36A4kCBXRqRhsNq8Avrhrz4",
  "data": {
    "name": "PixelPulse AI",
    "symbol": "PXP",
    "uri":
"https://bafkreiedrcsfujvuseucd6rnzkrauoajyub7jp4h4a3qiln6zhsrrm6c6q.ipfs.nftstorage.
link",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 1,
  "editionNonce": 255,
  "tokenStandard": 2,
  "name": "PixelPulse AI",
  "symbol": "PXP",
  "image":
"https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.ipfs.nftstorage.
link",
  "description": "PixelPulse is the pinnacle of AI-crafted meme tokens, seamlessly
blending the allure of memes with the prowess of artificial intelligence. As a
forerunner in the AI and meme sectors, PixelPulse offers the opportunity to acquire,
hold, and trade millions or even billions of tokens. \n\nThe name \"PixelPulse\"
epitomizes the fusion of digital imagery and the vitality of constant evolution. It's
a digital heartbeat, resonating with the dynamic spirit of the internet, where every
transaction paints a pixel in our shared digital canvas. Join the PixelPulse movement
and embrace the future of intelligent meme tokens, as we set our sights on propelling
PixelPulse to the moon and beyond space, supported by a robust and visionary
marketing strategy.",
  "extensions": {
    "website": "https://www.pixelpulsecoin.com/",
    "twitter": "https://twitter.com/PixelPulseCoin",
    "telegram": "https://t.me/pixelpulsecoin"
  },
  "tags": [
    "Meme",
    "Airdrop",
    "AI",
    "GenAI",
    "Art"
  ],
  "creator": {
    "name": "PIXELPULSE AI TEAM",
    "site": "https://www.pixelpulsecoin.com/"
  }
}
```

Metadata Description

The “data” section within the metadata discloses the asset's name as `PixelPulse AI`, its trading symbol as `PXP`, and a URI pointing to <https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.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 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 `PixelPulse AI` 's key features and its operational framework within the Metaplex ecosystem on Solana.

Within the data segment of the PixelPulse AI token's metadata, key characteristics such as the asset's name `PixelPulse AI`, its symbol `PXP`, and a URI linking to its visual representation are disclosed. This URI, <https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.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 255 signifies its unique edition, and adherence to the (`tokenStandard: 2`) ensures its compliance and interoperability within the Solana ecosystem. This comprehensive metadata encapsulates the PixelPulse AI 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	HhCLFBpryLJdobPccwZvGNbMWo27u8qYZseFs3B2e7PU	The public key that is allowed to update this account
mint	Gjpud3xeAL5cWSLfHqX6m36A4kCBXRqRhsNq8Avrhrz4	The public key of the Mint Account it derives from
name	PixelPulse AI	The on-chain name of the token
symbol	PXP	The on-chain symbol of the token

uri	https://bafkreiedrcsfujvuseucd6rnzkrauoajyub7jp4h4a3qiln6zhsrrm6c6q.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
-----	---	--

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
image	https://bafkreihyhp5yv2c32rgc35sbpdho2ctonukbjdmewo64txcfbyfjogni4i.ipfs.nftstorage.link	URL pointing to the asset's logo

description	PixelPulse is the pinnacle of AI-crafted meme tokens, seamlessly blending the allure of memes with the prowess of artificial intelligence. As a forerunner in the AI and meme sectors, PixelPulse offers the opportunity to acquire, hold, and trade millions or even billions of tokens. \n\nThe name "PixelPulse" epitomizes the fusion of digital imagery and the vitality of constant evolution. It's a digital heartbeat, resonating with the dynamic spirit of the internet, where every transaction paints a pixel in our shared digital canvas. Join the PixelPulse movement and embrace the future of intelligent meme tokens, as we set our sights on propelling PixelPulse to the moon and beyond space, supported by a robust and visionary marketing strategy.	The description of the asset
website	https://www.pixelpulsecoin.com/	The website link of the token
twitter	https://twitter.com/PixelPulseCoin	The twitter link of the token
telegram	https://t.me/pixelpulsecoin	The Telegram link of the token
tags	Meme, Airdrop, AI, GenAI, Art	Tags describing the token

creator_name	PIXELPULSE AI TEAM	The creator name of the token
--------------	--------------------	-------------------------------

creator_site	https://www.pixelpulsecoin.com/	The website link of the token creator
--------------	---	---------------------------------------

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	PixelPulse AI
Status	Unresolved

Description

The contract is set up in a way that grants the update authority, with the address `HhCLFBpryLJdobPccwZvGNbMWo27u8qYZseFs3B2e7PU`, 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 PixelPulse AI 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/4zWWCvxDCLaoaSXPFg4feT7HZC2aW4MACPiKUxiSe1ZiqHpdWrsZic6QPyK9negQSKvN8sYbmUX8bFos6JusNwfq>.

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>