



Cyberscope

Audit Report

Kingdom of ANTS

December 2023

Network SOL

Type SPL Token

Address 4WRST6Q2yyDP1p7Bqszg8PAAoj8j69cj7QY4QLn5Aq3o

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Review

Network	SOL
Token Type	SPL Token
Explorer	https://solscan.io/token/4WRST6Q2yyDP1p7Bqszg8PAAoj8j69cj7QY4QLn5Aq3o
Current Supply	100,000,000
Token name	ANT Coin (ANTC)
Token address	4WRST6Q2yyDP1p7Bqszg8PAAoj8j69cj7QY4QLn5Aq3o
Owner Program	Token Program
Authority	9kdbedeTgKRYvUcyxfkUXbS5Q7bQwVBXSBh8Nm8d1m3b
Decimals	6
Signature	YYdzSnSiCUQ6xQQDd5YcSKLoUMkdWYHDhzB8xkBiQYsWjfGvKEw97aS6KdiswXPnJkAGs6m6pcjwKrdu1MUHwS
Block	#233157733
Deploy Time	30/11/2023, 13:34:24
Instructions	CreateAccount, Unknown, CreateAssociatedAccount, Create-Metadata-Account-V3, Unknown, Unknown, Sol-Transfer
By	ANTikaYnAex4xSeLcDBZW4F1dmtYw1ZGcKgeo9i5atev
Metadata File Type	JSON
Name	ANT Coin
Symbol	ANTC
Description	NONE

Image	https://arweave.net/1rW4kHXhx8eW-YljQXGi1EhGdE6jCKZztIIWBrs-Fh4
Total Holders (At the time of the report)	1
Total Transactions (At the time of the report)	4

Audit Updates

Initial Audit	4 Dec 2023
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Source Files

Filename	JSON
Metadata/JSON	https://solscan.io/token/4WRST6Q2yyDP1p7Bqszg8PAAoj8j69cj7QY4QLn5Aq3o#metadata

Overview

The Ant Coin token, represented by the symbol `ANTC`, is an SPL (Solana Program Library) token, as indicated by its presence on the Solana blockchain. The metadata JSON file associated with this token provides essential details about it. The name `ANT Coin` specifies the identity within the Solana ecosystem. The description field in the metadata is left empty, indicating that no additional descriptive information has been provided. A significant aspect of this token's metadata is the image URL <https://arweave.net/1rW4kHXhx8eW-YIjQXGi1EhGdE6jCKZztllWBrS-Fh4>, which points to an image hosted on Arweave, a decentralized storage service. This image is used for visual identification of the token across various platforms and marketplaces. Overall, the Ant Coin 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 ANT coin token are as follows:

Signature	Block	Time	Instructions	By	Fee (SOL)
2pwyNYbx JzGPc6C5 4L6XEX57 ...	#233158089	11-30-2023 13:37:05	Compute Budget: Set Compute Unit Price, Compute Budget: Set Compute Unit Limit, Unknown, CreateAssociatedAccount, Spl-Transfer	ANTika. ..i5atev	0.0000066
64tZZD7Xg Z8QvUvUUj cFAEiHGm ...	#233157958	11-30-2023 13:36:04	Unknown	ANTika. ..i5atev	0.000005
5bw2sWcN ccm6fpu5J 6dVM2V...	#233157899	11-30-2023 13:35:36	Unknown	ANTika. ..i5atev	0.000005
5X3r7P7jDf up7kPyTK3 W8zQm...	#233157858	11-30-2023 13:35:19	Update	ANTika. ..i5atev	0.000005
YYdzSnSiC UQ6xQQD d5YcSKLo ...	#233157733	11-30-2023 13:34:24	CreateAccount, Unknown, CreateAssociatedAccount, Create-Metadata-Account-V3, Unknown, Unknown, Sol-Transfer	ANTika. ..i5atev	0.000001

Holders

At the time of this report, the distribution of ANT coin token holders is as follows:

#	Address	Owner	Quantity	Percentage
1	3KB73Vy3SvniP51GxC9qrY3Bf8XcL73gHBVC hKmtxrNW	EZb8CzdUxBU9OyKtA6Gx9uF tLtq4VHbEtGimPVwK1eof	95,700,000	95.7%
2	3wYgkq15N8yaMaEVxpPoB9w3e3SMT7uhzY UZ8dHzUAb	CfdC9GfKrfPAQXSsFegdHdaY RP5U5ze4tsKbpgqo42Jp	1,400,000	1.4%
3	7F1TxZ9f4gq7UsfOVsEL hGfGtGxGomH1iBArnug otZb8	9kbdedeTqKRYvUcyxfkUXbS5 Q7bQwVBXSBh8Nm8d1m3b	1,300,000	1.3%
4	3MrdUT55G8NXg2bLz YuxB8QP3msbcjPe7KY yuZdBMNka	2aiSPXMuYMLyCbYMw9GBSx zx7HUF9EvDxDxAAAEcJYUt	1,000,000	1%
5	Bik8FGqSe92qz4ccfpA yRqJkbGMZPRsweE6X oaXsWunX	MEXC	600,000	0.6%

This distribution represents the token holdings at the specific time of our audit. Changes in distribution may occur due to subsequent transactions.

Team Wallets

At the time of this report, the following team wallets, as declared by the team with their corresponding roles, are as follows:

#	Address	Role
1	EZb8CzdUxBU9QyKtA6Gx9uFtLtq4VHbEtGimPVwK1eof	SAFE Wallet for future distribution
2	CfdC9GfKrfPAQXSsFegdHdaYRP5U5ze4tsKbpgqo42Jp	Liquidity reserve wallet
3	2aiSPXMuYMLyCbYMw9GBSxx7HUF9EvDxDxAAAEcJYUt	Foundation wallet
4	9kbdedeTgKRYvUcyxfkUXbS5Q7bQwVBXSBh8Nm8d1m3b	Authority address
5	MEXC	MEXC Centralized exchange wallet

Metadata

MetaplexMetadata

The MetaplexMetadata is specific to the Metaplex platform on Solana and includes a wide range of technical details necessary for the asset's interaction within that ecosystem. The current JSON file represents the metadata for `ANT Coin` (symbol: `ANTC`), a digital asset on the Solana blockchain. The `updateAuthority` indicates the account authorized to modify this data, while the `mint` field uniquely identifies the public key of the mint account it derives from. The data section includes the token's name, symbol, a URI for additional information, and notes a zero seller fee. The token has not had its primary sale yet (`primarySaleHappened` : 0), its metadata is changeable (`isMutable` : 1), and it follows a specific token standard within Solana (`tokenStandard` : 2). This metadata provides a concise overview of ANT Coin's key characteristics on the blockchain.

```
{
  "key": 4,
  "updateAuthority": "9kdedeTqKRYvUcyxfkUXbS5Q7bQwVBXSBh8Nm8d1m3b",
  "mint": "4WRST6Q2yyDP1p7Bqszg8PAAoj8j69cj7QY4QLn5Aq3o",
  "data": {
    "name": "ANT Coin",
    "symbol": "ANTC",
    "uri":
      "https://arweave.net/XHqZ-2a7crk9e3b32V2gpy6wWiktP2JE2ZW1yotWbKY",
    "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	9kbd...1m3b	The public key that is allowed to update this account
mint	4WRST...Aq3o	The public key of the Mint Account it derives from
Name	ANT Coin	The on-chain name of the token
Symbol	ANTC	The on-chain symbol of the token
Uri	https://arweave.net/XH...bKY	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

URI Metadata

The URI Metadata represents the essential details of the `ANT Coin`, symbolized with `ANTC`. It includes the asset's name and symbol, and leaves the description field empty, indicating no additional textual information is provided. A feature is the inclusion of an image URL, "<https://arweave.net/1rW4kHXhx8eW-YljQXGi1EhGdE6jCKZztIIWBrS-Fh4>", hosted on Arweave, a decentralized storage service. This image link is crucial for visual identification and representation of the ANT Coin across various platforms and marketplaces. This metadata succinctly encapsulates the key visual and identifying features of the ANT Coin.

```
{
  "name": "ANT Coin",
  "symbol": "ANTC",
  "description": "",
  "image":
  "https://arweave.net/1rW4kHXhx8eW-YljQXGi1EhGdE6jCKZztIIWBrS-Fh4"
}
```

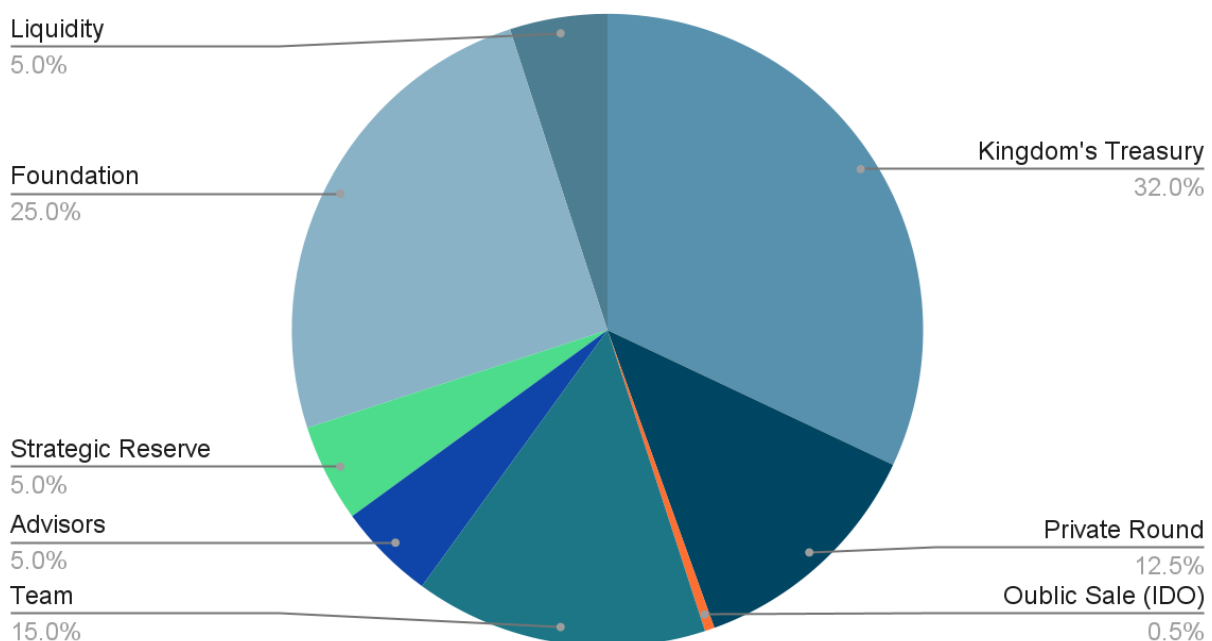
Field	Type	Value	Description
name	string	ANT Coin	Name of the asset
symbol	string	ANTC	Symbol of the asset
description	string	''	Description of the asset
image	string	https://arweave.net/1rW4kHXhx8eW-YljQXGi1EhGdE6jCKZztIIWBrS-Fh4	URI pointing to the asset's logo

Expected Token Distribution

At the time of this report, the project's expected token distribution for ANT coin token is outlined as follows:

Category	Percentage	Total Tokens
Kingdom's Treasury	32%	32,000,000
Private Round	12.5%	12,500,000
Public Sale (IDO)	0.5%	500,000
Team	15%	15,000,000
Advisors	5%	5,000,000
Strategic Reserve	5%	5,000,000
Foundation	25%	25,000,000
Liquidity	5%	5,000,000

Initial Minted Supply 100.000.000



Vesting Details

At the time of this report, the project's expected vesting details are as follows:

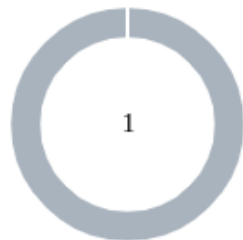
Name	Initial	Cliff	Vesting Time
Private Round	10%	0 months	9 months
Public Sale	10%	0 months	5 months
Team	0%	6 months	10 months
Advisors	0%	6 months	10 months
Reserve	0%	3 months	9 months
Foundation	4%	0 months	24 months
Kingdom's Treasury	0%	1	6 months
Liquidity	40%	0 months	4 months

Team Members

At the time of this report, the project's team members for the ANT coin token are as follows:

Name	Role	Contact Info
Niko Sairanen	Founder	https://www.linkedin.com/in/nikosairanen/
Morio Seiki	Main Developer	-
Kim Pelkonen	Marketing Director	https://www.linkedin.com/in/kim-pelkonen-1252ab239/
Dennis	3D Graphic Artist	-
Oliver Allen	Blockchain Developer	-
Moses Dada	Finance Modelling Advisor	https://www.linkedin.com/in/fola-moses-dada-cqf-a3687a73/

Findings Breakdown



● Critical	0
● Medium	0
● Minor / Informative	1

Severity	Unresolved	Acknowledged	Resolved	Other
● Critical	0	0	0	0
● Medium	0	0	0	0
● Minor / Informative	1	0	0	0

CR - Centralization Risk

Criticality	Minor / Informative
Status	Unresolved

Description

The token account `7F1TxZ9f4gq7UsfQVsELhGfGtGXGomH1iBArnugotZb8`, owned by the account address `9kbdedeTqKRYvUcyxfkUXbS5Q7bQwVBXSBh8Nm8d1m3b`, holds the entire supply of the ANT coin token. Following the deployment, all tokens were transferred to this single account. Consequently, this address now owns the entire token supply, amounting to 100,000,000 `ANTC`. This concentration of the entire token supply in one address 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.

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 address consists 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 ANT token, built on the Solana network, implements a robust smart contract structure, with analysis revealing no critical issues in its design or functionality.

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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>