



Cyberscope

Audit Report

MissingNo

April 2024

Network SOL

Type SPL-Token

Address HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU

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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 |

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Review

| | |
|-------------------------|---|
| Network | SOL |
| Explorer | https://solscan.io/token/HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU |
| Fixed Supply | 999,783,464.19 |
| Token Address | HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU |
| Token name | MissingNo (MSGNO) |
| Owner Program | Token Program |
| Decimals | 9 |
| MintTokens Authority | Revoked |
| FreezeAccount Authority | Revoked |
| Metadata File Type | JSON |
| Badge Eligibility | Yes |

Audit Updates

| | |
|---------------|-------------|
| Initial Audit | 04 Apr 2024 |
|---------------|-------------|

Source Files

| | |
|---------------|---|
| Filename | JSON |
| Metadata/JSON | https://solscan.io/token/HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU#metadata |

Overview

The `MissingNo` token symbolized as `MSGNO`, is a distinguished SPL (Solana Program Library) token initialized using the `TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA` Token Program on the Solana blockchain, with a fixed supply of `999,783,464.19` tokens since the mint has been disabled. This ensures a stable and unchangeable total supply, enhancing its value proposition within the ecosystem. The token uses the URL <https://ipfs.io/ipfs/QmU5k2HyF3W8yRvSs52Vu9ZqheXVsPmDQG4ZvnTJREV7Kw>, which points to a decentralized storage service while the <https://ipfs.io/ipfs/QmYgYFWC5ARtVc15bcwPhDJ9YkxeVCuez25GQCpUB6JjVy> image is used for visual identification of the token across various platforms and marketplaces. Overall, the project is a distinct entity within the Solana network, identifiable by its unique characteristics as outlined in its metadata.

Both the contract's mint and freeze authority have been renounced.

Metadata

The Metaplex Metadata provides details of the characteristics of the `MissingNo` 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 update authority attribute specifies the account `4Bcr77yHD98aRXLf7N9GdLeJTN34yWwzbpGqJFUHGKg4` authorized to modify the metadata. The mint attribute specifies the account `HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU` authorized for the initial token mint. 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 immutable (`isMutable` : 0), not 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 `MissingNo` key features and its operational framework within the Metaplex ecosystem on Solana.

```
{
  "key": 4,
  "updateAuthority": "4Bcr77yHD98aRXLf7N9GdLeJTN34yWwzbpGqJFUHGKg4",
  "mint": "HArTb3LAKzoKqRP9i3uKrMHshcA8RZEHDHb8PKRfNqmU",
  "data": {
    "name": "MissingNo",
    "symbol": "MSGNO",
    "uri":
      "https://ipfs.io/ipfs/QmU5k2HyF3W8yRvSs52Vu9ZqheXVsPmDQG4ZvnTJREV7Kw",
    "sellerFeeBasisPoints": 0
  },
  "primarySaleHappened": 0,
  "isMutable": 0,
  "editionNonce": 255,
  "tokenStandard": 2
}
```

| Field | Value | Description |
|----------------------|---|---|
| key | 4 | Account discriminator that identifies the type of metadata account |
| updateAuthority | 4Bcr77yHD98aRxLf7N9GdLeJ TN34yWwzbpGqJFUHGKg4 | The public key that is allowed to update this account |
| mint | HArTb3LAKzoKqRP9i3uKrMHs hcA8RZEHDHb8PKRfNqmU | The public key of the Mint Account it derives from |
| name | MissingNo | The on-chain name of the token |
| symbol | MSGNO | The on-chain symbol of the token |
| uri | https://ipfs.io/ipfs/QmU5k2HyF3W8yRvSs52Vu9ZqheXVsPmDQG4ZvnTJREV7Kw | 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 | 0 | 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

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

Summary

The "MissingNo" token, built on the Solana network, implements a robust smart contract structure that was initialized using the Token program, with analysis revealing no issues.

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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>