

# Audit Report BabyMona

April 2024

Network SOL

Type SPL-Token

Address BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA

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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	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	BC	Blacklists Addresses	Passed



# **Diagnostics**

CriticalMediumMinor / Informative

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



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## Review

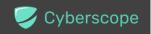
Network	SOL
Explorer	https://solscan.io/token/BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA
Fixed Supply	1,000,000,000.00
Token Address	BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA
Token name	Baby Mona (BYMONA)
Owner Program	Token Program
Decimals	6
MintTokens Authority	Revoked
FreezeAccount Authority	Revoked
Metadata File Type	JSON
Badge Eligibility	Yes

## **Audit Updates**

Initial Audit	03 Apr 2024
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### **Source Files**

Filename	JSON
Metadata/JSON	https://solscan.io/token/BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA#metadata



### **Overview**

The Baby Mona token symbolized as BYMONA, is a distinguished SPL (Solana Program Library) token initialized using the TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA Token Program on the Solana blockchain, with a fixed supply of 1,000,000,000 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/QmcvDdbYWdt4TyHbef2PJGL5GdnECTLruWXXVDb54dU7EKk, which points to a decentralized storage service while the https://ipfs.io/ipfs/QmZLhfdawbV6B6umm55Wpzc8CnakjEYaTqSDhnJAQyEmZ9 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. The information regarding the transaction can be accessed through the following link: https://solscan.io/tx/5Nu9jFN3jXZUbhni5CziZgTLywjU2g7ECyspipy5K8As6iGeD2Z9XFiwpr WzPYRkNB4cCGNxyvmpwEaSocoLv8AD

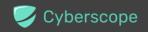


#### Metadata

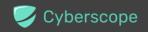
The Metaplex Metadata provides details of the characteristics of the Baby Mona token, a distinctive digital asset on the Solana blockchain tailored for utilizing the Metaplex Metadata. This metadata includes crucial information necessary for the asset's seamless integration and operation within the Solana ecosystem. Specifically, the update authority attribute specifies the account 8nsHARAGuPavaHWveGzJ9pqRZ73MgptkRH3UXkkbKwuV authorized to modify the metadata. The mint attribute specifies the account BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA 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 mutable ( isMutable: 1), allowing for future changes to the metadata. An editionNonce of 254 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 Baby Mona key features and its operational framework within the Metaplex ecosystem on Solana.



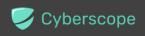
```
"key": 4,
 "updateAuthority": "8nsHARAGuPavaHWveGzJ9pqRZ73MgptkRH3UXkkbKwuV",
  "mint": "BGJGRESuGgZNy6z3e2wiK2E5hdVfkWhCTQCoJuaJonFA",
 "data": {
    "name": "Baby Mona ",
    "symbol": "BYMONA",
    "uri":
"https://ipfs.io/ipfs/QmcvDdbYWdt4TyHbef2PJGL5GdnECTLruWXXVDb54dU7EK",
    "sellerFeeBasisPoints": 0
  "primarySaleHappened": 0,
 "isMutable": 1,
  "editionNonce": 254,
 "tokenStandard": 2,
 "name": "Baby Mona ",
  "symbol": "BYMONA",
  "description": "Baby Mona is the Memefied Version of MonaCoin (aka
Japanese DogeCoin). It was Derived From The Most Promising ASCII art
character \"Mona\". $BYMONA is The Most Memeable Memecoin in Existence.
#BYMONAARMY Rocks !!!!!",
  "image":
"https://ipfs.io/ipfs/QmZLhfdawbV6B6umm55Wpzc8CnakjEYaTqSDhnJAQyEmZ9",
  "extensions": {
    "website": "https://babymona.vip/",
    "twitter": "https://twitter.com/BabyMonaCoin",
    "telegram": "https://t.me/BabyMonaCoin",
    "discord": ""
 },
 "creator": {
    "name": "DepLoySolXYZ Development Tools",
    "site": "https://www.deploysol.xyz/"
```



Field	Value	Description
key	4	Account discriminator that identifies the type of metadata account
updateAuthority	8nsHARAGuPavaHWveGzJ9pq RZ73MgptkRH3UXkkbKwuV	The public key that is allowed to update this account
mint	BGJGRESuGgZNy6z3e2wiK2E 5hdVfkWhCTQCoJuaJonFA	The public key of the Mint Account it derives from
name	Baby Mona	The on-chain name of the token
symbol	BYMONA	The on-chain symbol of the token
uri	https://ipfs.io/ipfs/QmcvDdbY Wdt4TyHbef2PJGL5GdnECTLr uWXXVDb54dU7EK	The URI to the external metadata. This URI points to an off-chain JSON file that contains additional data following a certain standard
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



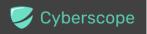
editionNonce	254	Unique identifier for this edition
tokenStandard	2	The standard of the token
description	Baby Mona is the Memefied Version of MonaCoin (aka Japanese DogeCoin). It was Derived From The Most Promising ASCII art character "Mona". \$BYMONA is The Most Memeable Memecoin in Existence. #BYMONAARMY Rocks!!!!!	The description of the asset
image	https://ipfs.io/ipfs/QmZLhfdaw bV6B6umm55Wpzc8CnakjEYa TqSDhnJAQyEmZ9	URL pointing to the asset's logo
extensions	website, twitter, telegram, discord	Extensions of the asset
creator	name, site	Creator of the asset



# **Findings Breakdown**



Severity	Unresolved	Acknowledged	Resolved	Other
<ul><li>Critical</li></ul>	0	0	0	0
<ul><li>Medium</li></ul>	1	0	0	0
<ul><li>Minor / Informative</li></ul>	1	0	0	0



#### **UA - Update Authority**

Criticality	Medium
Status	Unresolved

#### Description

The contract is set up in a way that grants the update authority, with the address 8nsHARAGuPavaHWveGzJ9pqRZ73MgptkRH3UXkkbKwuV , 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 token account vzHdWgQbPeng1VU8GyXA5hiwrJj9MtajfRvZG58DHLa , holds a large portion of total supply. Consequently, at the time of the report, this address owns 70.0000% of the entire token supply, amounting to 700,000,001 BYMONA . This concentration of almost 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.

Token Account	Quantity	Percentage
vzHdWgQbPeng1VU8GyXA5hiwrJj9MtajfRvZG58D HLa	700,000,0 01	70.0000%

#### 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 "BabyMona" token, built on the Solana network, implements a robust smart contract structure that was initialized using the Token program, with analysis revealing 1 medium and 1 minor/informative issues.



#### **Disclaimer**

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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