



SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



Gemex
\$GMX

10/04/2024



TOKEN OVERVIEW

Fees

- Buy fees: N/A
- Sell fees: N/A

Fees privileges

- N/A

Ownership

- N/A

Minting

- N/A

Max Tx Amount / Max Wallet Amount

- N/A

Blacklist

- N/A

Other privileges

- MetaData is mutable
-

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TECHNICAL DISCLAIMER



DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy (RUG or Honeypot etc)



INTRODUCTION

FreshCoins (Consultant) was contracted by **Gemex** (Customer) to conduct a Smart Contract Code Review and Security Analysis.

6nXcZRDMvw7qG4FiLyEiA1qrZaAw75qw4hf6MqP3mv8X

Network: **Solana (SOL)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **10/04/2024**



WEBSITE DIAGNOSTIC

<https://gemex.finance/>



0-49



50-89



90-100



Performance



Accessibility



Best
Practices



SEO



Progressive
Web App

Socials



Twitter

https://twitter.com/gemex_finance



Telegram

https://t.me/gemex_finance

AUDIT OVERVIEW



Security Score



Auditing Request

10.04.2024



Onboarding Process

10.04.2024



Audit Preview

10.04.2024



Audit Release

10.04.2024



High



Medium



Low



Optimizations

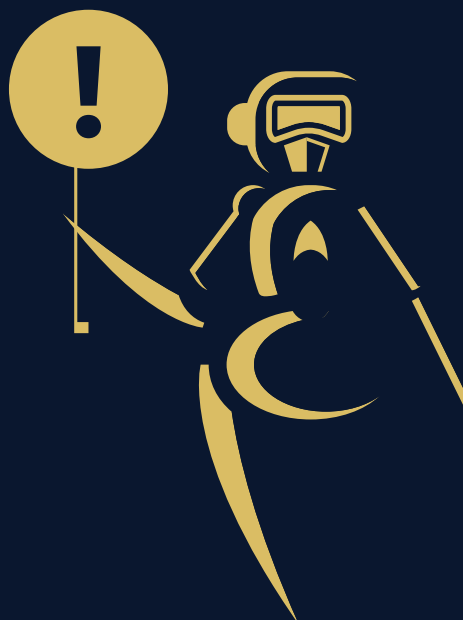


Informational



TOKEN SUMMARY

Address:	6nXcZRDMvw7qG4FiLyEiA1qrZaAw75qw4hf6MqP3mv8X
Name:	Gemex
Symbol:	GMX
Decimals:	9
Supply:	1,000,000,000.00
Platform:	Solana
Contract Name:	GMX
Optimization:	Yes
License Type:	Unlicensed
Language:	Rust



PROJECT OVERVIEW

METADATA RESULTS

key:	4
updateAuthority:	43fE1kHFzc7d8uQ3KuZ323WgdzwWWRrt3o33D63a5k8g
mint:	6nXcZRDMvw7qG4FiLyEiA1qrZaAw75qw4hf6MqP3mv8X
sellerFeeBasisPoints:	0
primarySaleHappened:	0
isMutable:	1
editionNonce:	255
tokenStandard:	2

URI METADATA

Solana URI Metadata pertains to the information linked with a token, which is fetched from its Uniform Resource Identifier (URI)

<https://nftstorage.link/ipfs/bafkreiheenzppms6lnrco5nhfe4fxg5y2244zrvfdued7tqnsjweor4lyu>

```
{ 8 items
  key : 4
  updateAuthority : "43fE1kHFzc7d8uQ3KuZ323WgdzwWWRrt3o33D63a5k8g"
  mint : "6nXcZRDMvw7qG4FiLyEiA1qrZaAw75qw4hf6MqP3mv8X"
  data : { 5 items
    name : "Gemex"
    symbol : "GIX"
    uri : "https://nftstorage.link/ipfs/bafkreiheenzppms6lnrco5nhfe4fxg5y2244zrvfdued7tqnsj ..."
    sellerFeeBasisPoints : 0
    creators : [ 1 item
      0 : { 3 items
        address : "43fE1kHFzc7d8uQ3KuZ323WgdzwWWRrt3o33D63a5k8g"
        verified : 1
        share : 100
      }
    ]
  }
  primarySaleHappened : 0
  isMutable : 1
  editionNonce : 255
  tokenStandard : 2
}
```

PROJECT OVERVIEW

METADATA RESULTS

key: This is an integer value that signifies the key linked to the root object

updateAuthority: This is a string value that denotes the update authority for the program

mint: This is a string value that signifies the mint address associated with the program

sellerFeeBasisPoints: This is an integer value that represents the seller fee basis points

primarySaleHappened: This is an integer value that indicates whether the primary sale of the token has occurred

isMutable: This is an integer value that indicates the mutability of the token. A value of 1 suggests that the token is mutable, while a value of 0 indicates that the token is not mutable

editionNonce: This is an integer value that denotes the edition nonce for the token

tokenStandard: This is an integer value that signifies the token standard for the program

PROJECT OVERVIEW

METAPLEX METADATA

Solana metadata encompasses supplementary information linked to a digital asset or NFT on the Solana blockchain. This information comprises details such as the asset's name, description, image, attributes, and other pertinent data

In the Solana context, metadata is usually stored in JSON format and associated with the unique identifier or token ID of assets. This metadata offers crucial information about the asset, enabling users and applications to comprehend and engage with it effectively.

```
{ 6 items
  name : "Gemex"
  symbol : "GMX"
  description : "Gemex - The future of DeFi. Decentralized perpetual exchange and best earning to ..."
  image : "https://photos.pinksale.finance/file/pinksale-logo-upload/1712696165509-4832fff1 ..."
  creator : { 2 items
    name : "PinkSale"
    site : "https://pinksale.finance"
  }
  extensions : { 3 items
    telegram : "https://t.me/gemex_finance"
    twitter : "https://twitter.com/gemex_finance"
    website : "https://gemex.finance"
  }
}
```

TECHNICAL FINDINGS

● Centralization / Privilege

During the contract deployment, all tokens are allocated to the contract deployer, presenting a potential risk of centralization. This is concerning because the deployer possesses the ability to distribute tokens without seeking consensus from the community

Recommendation

We advise the team to maintain transparency regarding the initial token distribution process

● Contract owner has ability to update token metadata

Token metadata includes information such as its name, symbol, image, and other relevant details. The authority to modify this metadata rests with the token contract owner or any other designated entity.



Recommendation:

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.



CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found no HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees:	N/A
Sell fees:	N/A
Max TX:	N/A
Max Sell:	N/A

Honeypot Risk





Ownership:	N/A
Blacklist:	Not detected
Modify Max TX:	Not detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

Rug Pull Risk

Liquidity:	Raydium AMM V4
Holders:	Clean



GMX TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

#	Account	Token Account	Quantity	Percentage
1	5XpweKK88L6LJk3qpp3boBKy5dNDY89sdJvFvT6anWk5 	BP6cM385KSRncvq6MwitTGw7oqVUrv8hBMqajrrWm9U 	742,250,000.00	74.22%
2	3tod4efVpW11sLNR7HPke6o5xcbpBkWerjJFvFBetWjM 	CRnA9LDTTmvx8rXa4dffcNR2WzjHN2AKAmyLYBfD4w8R 	257,750,000.00	25.77%

TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

