

CFG NINJA AUDITS

Security Assessment

Elon Mark Token

July 8, 2023

Audit Status: Pass

Audit Edition: Advance



Risk Analysis

Classifications of Manual Risk Results

Classification	Description
○ Critical	Danger or Potential Problems.
High	Be Careful or Fail test.
Low	Pass, Not-Detected or Safe Item.
■ Informational	Function Detected

Manual Code Review Risk Results

Contract Priviledge	Description
Buy Tax	0%
Sale Tax	0%
Cannot Sale	Pass
Cannot Sale	Pass
■ Max Tax	0%
■ Modify Tax	No
Fee Check	Pass
■ Is Honeypot?	Not Detected
Trading Cooldown	Not Detected
Can Pause Trade?	Not Detected





Contract Priviledge	Description
Pause Transfer?	Not Detected.
Max Tx?	Pass
ls Anti Whale?	Not Detected
■ Is Anti Bot?	Not Detected
■ Is Blacklist?	Not Detected
Blacklist Check	Pass
is Whitelist?	Not Detected
Can Mint?	Pass
■ Is Proxy?	Not Detected
Can Take Ownership?	Not Detected
Hidden Owner?	Not Detected
Owner	no
Self Destruct?	Not Detected
External Call?	Not Detected
Other?	Not Detected
Holders	1
Auditor Confidence	low

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





Project Overview

Token Summary

Parameter	Result
Address	0xbB18719c076a474D5207cB13074A7dB8f064c6fd
Name	Elon Mark
Token Tracker	Elon Mark (ELONMARK)
Decimals	18
Supply	100,000,000
Platform	Ethereum
compiler	v0.8.19+commit.7dd6d404
Contract Name	ElonMark
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/token/0xbB18719c076a474D5207cB13074 A7dB8f064c6fd#code
Payment Tx	Corporate





Project Overview

Simulation Summary

Parameter	Result
Transfer From Owner	Pass
Transfer From Holder	Pass
Add Liquidity	Pass
RemoveLiquidity	Pass
Buy from Owner	Pass
Buy from Holder	Pass
Sale from Owner	Pass
Sale from Holder	Pass
Remove Liquidity	Pass
SwapAndLiquify	Pass
SwapAndSale w/Fee	Pass
SwapAndSale TX	
SwapAndSaleNoFee	Pass
SwapAndSale No/Fee TX	
ExcludeFromFees	Pass
LaunchPad	N/A





Parameter	Result
Pool Creation	Pass
Pool Creation TX	
Pool Finalize	Pass
Pool Finalize TX	
Enable	Pass

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.





Main Contract Assessed Contract Name

Name	Contract	Live
Elon Mark	0xbB18719c076a474D5207cB13074A7dB8f064c6fd	Yes

TestNet Contract Assessed Contract Name

Name	Contract	Live
Elon Mark	0x058E25026BE22947cF6c5E6e8174A35B698c3477	Yes

Solidity Code Provided

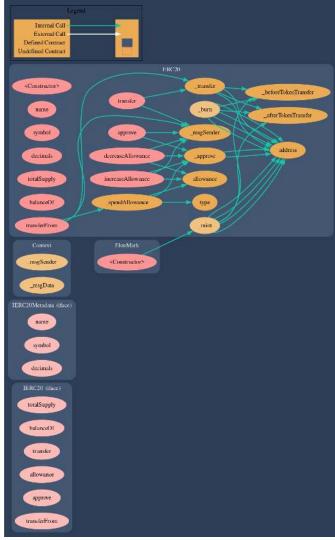
SollD	File Sha-1	FileName
ELONMARK	fa2e862b4d675a42ac8d278a7c3d4970bdd9f18a	ElonMark2.sol
ELONMARK		
ELONMARK		
ELONMARK		





Call Graph

The contract for Elon Mark has the following call graph structure.







Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	ElonMark2.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	ElonMark2.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	ElonMark2.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	ElonMark2.sol	L:7C:0
SWC-104	Pass	Unchecked Call Return Value.	ElonMark2.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	ElonMark2.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	ElonMark2.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	ElonMark2.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set	ElonMark2.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	ElonMark2.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	ElonMark2.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-111	Pass	Use of Deprecated Solidity Functions.	ElonMark2.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	ElonMark2.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	ElonMark2.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	ElonMark2.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	ElonMark2.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	ElonMark2.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	ElonMark2.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	ElonMark2.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	ElonMark2.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	ElonMark2.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	ElonMark2.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	ElonMark2.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	ElonMark2.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	ElonMark2.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	ElonMark2.sol	L: 0 C: 0





ID	Severity	Name	File	location
SWC-126	Pass	Insufficient Gas Griefing.	ElonMark2.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	ElonMark2.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	ElonMark2.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	ElonMark2.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	ElonMark2.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	ElonMark2.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	ElonMark2.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	ElonMark2.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	ElonMark2.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	ElonMark2.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	ElonMark2.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.





Smart Contract Vulnerability Details

SWC-103 - Floating Pragma.

CWE-664: Improper Control of a Resource Through in	ts
Lifetime.	

References:

Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

Remediation:

Lock the pragma version and also consider known bugs (https://github.com/ethereum/solidity/releases) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package.

Otherwise, the developer would need to manually update the pragma in order to compile locally.

References:

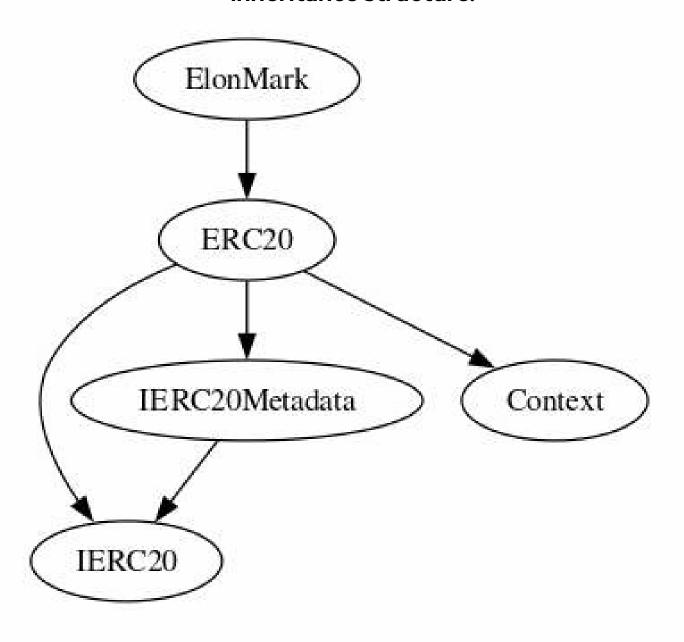
Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.





Inheritance

The contract for Elon Mark has the following inheritance structure.







Smart Contract Advance Checks

ID	Severity	Name	Result	Status
ELONMARK- 01	Low	Potential Sandwich Attacks.	Pass	Not Detected
ELONMARK- 02	Informational	Function Visibility Optimization	Pass	Not Detected
ELONMARK- 03	Low	Lack of Input Validation.	Pass	Not Detected
ELONMARK- 04	High	Centralized Risk In addLiquidity.	Pass	Not Detected
ELONMARK- 05	Low	Missing Event Emission.	Pass	Not Detected
ELONMARK- 06	Low	Conformance with Solidity Naming Conventions.	Pass	Not Detected
ELONMARK- 07	Low	State Variables could be Declared Constant.	Pass	Not Detected
ELONMARK- 08	Low	Dead Code Elimination.	Pass	Not Detected
ELONMARK- 09	High	Third Party Dependencies.	Pass	Not Detected
ELONMARK- 10	High	Initial Token Distribution.	Pass	Not Detected
ELONMARK- 11	High	transferFrom is incorrect and. ot following eip standard.	Pass	Not Detected
ELONMARK- 12	High	Centralization Risks In The X Role	Pass	Not Detected
ELONMARK- 13	Informational	Extra Gas Cost For User	Pass	Not Detected





ID	Severity	Name	Result	Status
ELONMARK- 14	Medium	Unnecessary Use Of SafeMath	Pass	Not Detected
ELONMARK- 15	Medium	Symbol Length Limitation due to Solidity Naming Standards.	Pass	Not Detected
ELONMARK- 16	Medium	Taxes can be up to 100%	Pass	Not Detected
ELONMARK- 17	Logical Issue	Highly Permissive Role Access.,`	Pass	Not Detected
ELONMARK- 18	Critical	Stop Transactions by using Enable Trade.	Pass	Not Detected





Technical Findings Summary

Classification of Risk

Severity	Description
⊕ Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
⊖ Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
1 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

Findings

Severity	Found	Pending	g Resolved	
Critical	0	0	0	
High	0	0	0	
○ Medium	0	0	0	
Low	0	0	0	
1 Informational	0	0	0	
Total	0	0	0	





Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/ElonMarkGlobal	Pass
Other		Fail
Website	https://elonmark.xyz/	Pass
Telegram	https://t.me/elonmarkxyz	Pass

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:







Assessment Results

Score Results

Review	Score
Overall Score	100/100
Auditor Score	80/100
Review by Section	Score
Manual Scan Score	34/33
SWC Scan Score	35/37
Advance Check Score	36/30

The Following Score System Has been Added to this page to help understand the value of the audit, the maximun score is 100, however to attain that value the project most pass and provide all the data needed for the assessment. Our Passing Score has been changed to 80 Points, if a project does not attain 80% is an automatic failure. Read our notes and final assessment below.

Audit Passed







Assessment Results

Important Notes:

- The Customer deployed an OpenZepelling CA.
- Please do your DYOR.

Auditor Score =80 Audit Passed







Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that actagainst the nature of decentralization, such as explicit ownership or specialized access roles incombination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimalEVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on howblock.timestamp works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owneronly functionsbeing invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that mayresult in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to makethe codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different require statements on the input variables than a setterfunction.





Coding Best Practices

ERC 20 Conding Standards are a set of rules that each developer should follow to ensure the code meet a set of creterias and is readable by all the developers.





Disclaimer

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