



SMART CONTRACT SECURITY AUDIT for



Storme Token

Token Overview

0xSafe received the application for a smart contract security audit of **Storme Token's** smart contract on July 24th, 2024.

KEY

N/D - Not Deployed Yet

Details

Client: Storme Token

Blockchain: Ethereum

Contract: N/D

Compiler: N/D

Optimization: N/D

Website: <https://storme.io/>

Table of Contents

Token Overview	1
Details	1
Table of Contents	2
Methodology	3
Audit Details	3
Code Quality	3
Scope of work	3
Tools	3
Risk Classification	4
Audit Findings	4
Critical Issues	4
Medium Issues	4
Minor Issues	4
SWC Attacks	5
Important Notes	7
Good Practices	7
Inheritance Tree	8
Contract Inspection	8
Legend	8
Table	8
Audit Results	11
Disclaimer	12

Methodology

Audit Details

This comprehensive audit report provides an overview of the **Storme Token** smart contract. OxSafe utilizes a combination of static, automated, and manual analysis tools to check for any potential vulnerabilities or hacks in the system.

Code Quality

This includes a full review of the smart contract code. The prime areas of focus are:

- Accuracy
- Exploits
- Functionality
- Readability
- Security
- Vulnerabilities

Scope of work

Storme Token's team provided us with the files that need to be tested (BSCscan, Etherscan, Github, etc.). The focus of the security audit is the main token smart contract.

Tools

Ganache, Mithril, MythX, Open Zeppelin Code Analyzer, Proprietary tests, Remix IDE, Solidity Compiler, SWC Registry.

Risk Classification

!Critical	This signifies vulnerabilities with the smart contract's functionality or performance. Issues should be resolved immediately.
!Medium	This signifies vulnerabilities that can potentially cause problems and should eventually be fixed.
!Minor	Minor vulnerabilities may or may not impact smart contract functionality.
!Informational	This is there to offer suggestions for improvement

Audit Findings

Critical Issues

-no critical issues found-

Medium Issues

Issue	Type	Line #(s)	Description
#1	Multiple calls are executed in the same transaction.	503, 534	This call is executed following another call within the same transaction.

Minor Issues

Issue	Type	Line #(s)	Description
-------	------	-----------	-------------

#1	A floating pragma is set.	3	Current pragma directive is: “^0.8.20”
#2	Reentrancy	248, 444, 503	Improper enforcement of behavioral workflow

SWC Attacks

SWC ID	Description	Status
SWC-100	Function Default Visibility	PASSED
SWC-101	Integer Overflow and Underflow	PASSED
SWC-102	Outdated Compiler Version	PASSED
SWC-103	Floating Pragma	MINOR
SWC-104	Unchecked Call Return Value	PASSED
SWC-105	Unprotected Ether Withdrawal	PASSED
SWC-106	Unprotected SELFDESTRUCT Instruction	PASSED
SWC-107	Reentrancy	MINOR
SWC-108	State Variable Default Visibility	PASSED
SWC-109	Uninitialized Storage Pointer	PASSED
SWC-110	Assert Violation	PASSED
SWC-111	Use of Deprecated Solidity Functions	PASSED
SWC-112	Delegatecall to Untrusted Callee	PASSED
SWC-113	DoS with Failed Call	PASSED
SWC-114	Transaction Order Dependence	PASSED
SWC-115	Authorization through tx.origin	PASSED

SWC-116	Block values as a proxy for time	PASSED
SWC-117	Signature Malleability	PASSED
SWC-118	Incorrect Constructor Name	PASSED
SWC-119	Shadowing State Variables	PASSED
SWC-120	Weak Sources of Randomness from Chain Attributes	PASSED
SWC-121	Missing Protection against Signature Replay Attacks	PASSED
SWC-122	Lack of Proper Signature Verification	PASSED
SWC-123	Requirement Violation	PASSED
SWC-124	Write to Arbitrary Storage Location	PASSED
SWC-125	Incorrect Inheritance Order	PASSED
SWC-126	Insufficient Gas Griefing	PASSED
SWC-127	Arbitrary Jump with Function Type Variable	PASSED
SWC-128	DoS With Block Gas Limit	PASSED
SWC-129	Typographical Error	PASSED
SWC-130	Right-To-Left-Override control character (U+202E)	PASSED
SWC-131	Presence of unused variables	PASSED
SWC-132	Unexpected Ether balance	PASSED
SWC-133	Hash Collisions With Multiple Variable Length Arguments	PASSED
SWC-134	Message call with hardcoded gas amount	PASSED
SWC-135	Code With No Effects	PASSED
SWC-136	Unencrypted Private Data On-Chain	PASSED

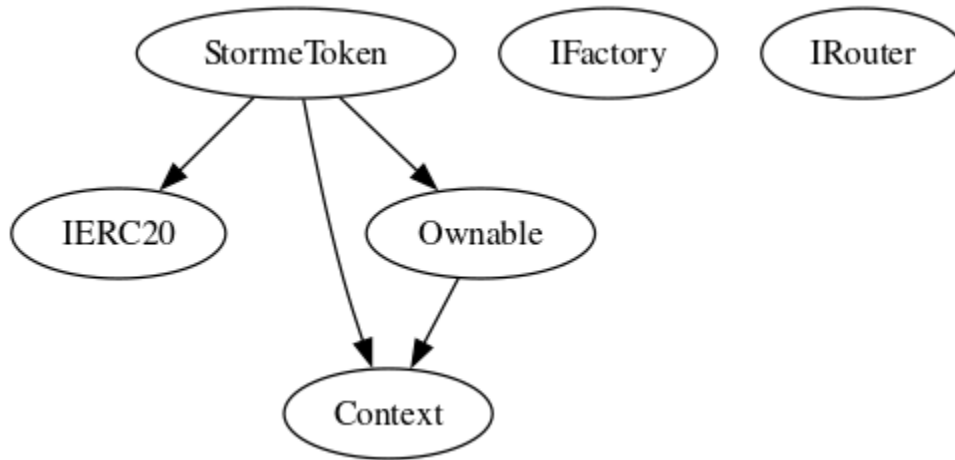
Important Notes

- Owner can recover tokens
- Owner can update transaction fees
- Owner can update dev wallet
- Owner can update pool wallet
- Owner can update community wallet
- Owner can update operations wallet
- Owner can update max transaction percent
- Owner can update cooldown
- Owner can update anti-bot status
- Owner can update router
- Owner can airdrop tokens

Good Practices

- The smart contract utilizes “SafeMath” to prevent overflows





Inheritance Tree















Contract Inspection

Below is a visual description report comprising of information about the system's files, contracts, and their functions.

Legend

Symbol	Meaning
:-----: -----	
	Function can modify state
	Function is payable
	Internal function
NO 	Function has no modifier

Table

Contract	Type	Bases			
:-----: :-----: :-----: :-----: :-----:					
L	**Function Name**	**Visibility**	**Mutability**	**Modifiers**	
IERC20	Interface				
L	totalSupply	External 	NO 		
L	balanceOf	External 	NO 		
L	transfer	External  	NO 		
L	allowance	External 	NO 		
L	approve	External  	NO 		

```

|  ↳ | transferFrom | External ! | 🔴 | NO ! |
|||||
| **Context** | Implementation | |||
|  ↳ | _msgSender | Internal 🔒 | ||
|  ↳ | _msgData | Internal 🔒 | ||
|||||
| **Ownable** | Implementation | Context |||
|  ↳ | <Constructor> | Public ! | 🔴 | NO ! |
|  ↳ | owner | Public ! | | NO ! |
|  ↳ | renounceOwnership | Public ! | 🔴 | onlyOwner |
|  ↳ | transferOwnership | Public ! | 🔴 | onlyOwner |
|  ↳ | _setOwner | Private 🔒 | 🔴 | |
|||||
| **IFactory** | Interface | |||
|  ↳ | createPair | External ! | 🔴 | NO ! |
|||||
| **IRouter** | Interface | |||
|  ↳ | factory | External ! | | NO ! |
|  ↳ | WETH | External ! | | NO ! |
|  ↳ | addLiquidityETH | External ! | 💵 | NO ! |
|  ↳ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🔴
| NO ! |
||||| |
| **StormToken** | Implementation | Context, IERC20, Ownable |||
|  ↳ | <Constructor> | Public ! | 🔴 | NO ! |
|  ↳ | name | Public ! | | NO ! |
|  ↳ | symbol | Public ! | | NO ! |
|  ↳ | decimals | Public ! | | NO ! |
|  ↳ | totalSupply | Public ! | | NO ! |
|  ↳ | balanceOf | Public ! | | NO ! |
|  ↳ | transfer | Public ! | 🔴 | NO ! |
|  ↳ | allowance | Public ! | | NO ! |
|  ↳ | tradingEnabled | Public ! | | NO ! |
|  ↳ | approve | Public ! | 🔴 | NO ! |
|  ↳ | transferFrom | Public ! | 🔴 | NO ! |
|  ↳ | increaseAllowance | Public ! | 🔴 | NO ! |
|  ↳ | decreaseAllowance | Public ! | 🔴 | NO ! |
|  ↳ | isExcludedFromReward | Public ! | | NO ! |
|  ↳ | reflectionFromToken | Public ! | | NO ! |
|  ↳ | tokenFromReflection | Public ! | | NO ! |

```

	excludeFromReward	Public !	●	onlyOwner
	includeInReward	External !	●	onlyOwner
	excludeFromFee	Public !	●	onlyOwner
	includeInFee	Public !	●	onlyOwner
	isExcludedFromFee	Public !		NO !
	setTaxes	Public !	●	onlyOwner
	_reflectRfi	Private 🔒	●	
	_takeLiquidity	Private 🔒	●	
	_takeDev	Private 🔒	●	
	_takeOperations	Private 🔒	●	
	_takeCommunity	Private 🔒	●	
	_getValues	Private 🔒		
	_getTValues	Private 🔒		
	_getRValues	Private 🔒		
	_getRate	Private 🔒		
	_getCurrentSupply	Private 🔒		
	_approve	Private 🔒	●	
	_transfer	Private 🔒	●	
	_tokenTransfer	Private 🔒	●	
	swapAndLiquify	Private 🔒	●	lockTheSwap
	addLiquidity	Private 🔒	●	
	swapTokensForETH	Private 🔒	●	
	updateDevWallet	External !	●	onlyOwner
	updateCommunityWallet	External !	●	onlyOwner
	updateOperationsWallet	External !	●	onlyOwner
	updatMaxTxAmt	External !	●	onlyOwner
	updateSwapTokensAtAmount	External !	●	onlyOwner
	updateSwapEnabled	External !	●	onlyOwner
	updateCoolDownSettings	External !	●	onlyOwner
	setAntibot	External !	●	onlyOwner
	bulkAntiBot	External !	●	onlyOwner
	updateRouterAndPair	External !	●	onlyOwner
	isBot	Public !		NO !
	rescueETH	External !	●	onlyOwner
	rescueAnyERC20Tokens	Public !	●	onlyOwner
	airdropTokens	External !	●	onlyOwner
	setTradingState	External !	●	onlyOwner
	<Receive Ether>	External !	💰	NO !

Audit Results

Storme Token's smart contract does not contain any severe issues or risks. The security of the smart contract was tested by 0xSafe using static, automated, and manual analysis. The



AUDIT PASSED

Note:

Please check the disclaimer below and note the audit makes no statements or warranties on the business model, investment attractiveness, or code sustainability of this project. The security audit report is provided for the only contract mentioned in this report.

Disclaimer

OxSafe.io provides contract auditing, KYC, development, and launch services for blockchain projects. The purpose of the security audit is to analyze the on-chain smart contract source code and to provide an easy-to-understand assessment of the crypto project and the smart contract. **OxSafe.io provides information as is.**

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