

Security Assessment: **CRAZE TOKEN**

December 2, 2024



- 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.
 Medium	Pass, Not-Detected or Safe Item.
 Low	Function Detected

Manual Code Review Risk Results

Contract Privilege	Description
 Buy Tax	0%
 Sale Tax	0%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	0%
 Modify Tax	No
 Fee Check	Pass
 Is Honeypot?	Not Detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Pass
 Pause Transfer?	Not-Detected
 Max Tx?	Pass
 Is Anti Whale?	Not-Detected
 Is Anti Bot?	Not-Detected

Contract Privilege	Description
 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	0xa1c05320add4C58c7F4E3f603E3A7C14B90247a2
 Self Destruct?	Not Detected
 External Call?	Not-Detected
 Other?	Not Detected
 Holders	2
 Auditor Confidence	Medium
 KYC Present	No
 KYC URL	

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	0xa4eb7B9Ff16823fb632dFB241282271bf8b55b6d
Name	CRAZE
Token Tracker	CRAZE (CRAZE)
Decimals	18
Supply	100,000,000
Platform	ETHEREUM
compiler	v0.8.4+commit.c7e474f2
Contract Name	StandardToken
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/ address/0xa4eb7B9Ff16823fb632dFB241282271bf8b55b6d#code
Payment Tx	Corporate

Main Contract Assessed Contract Name

Name	Contract	Live
CRAZE	0xa4eb7B9Ff16823fb632dFB241282271bf8b55b6d	Yes

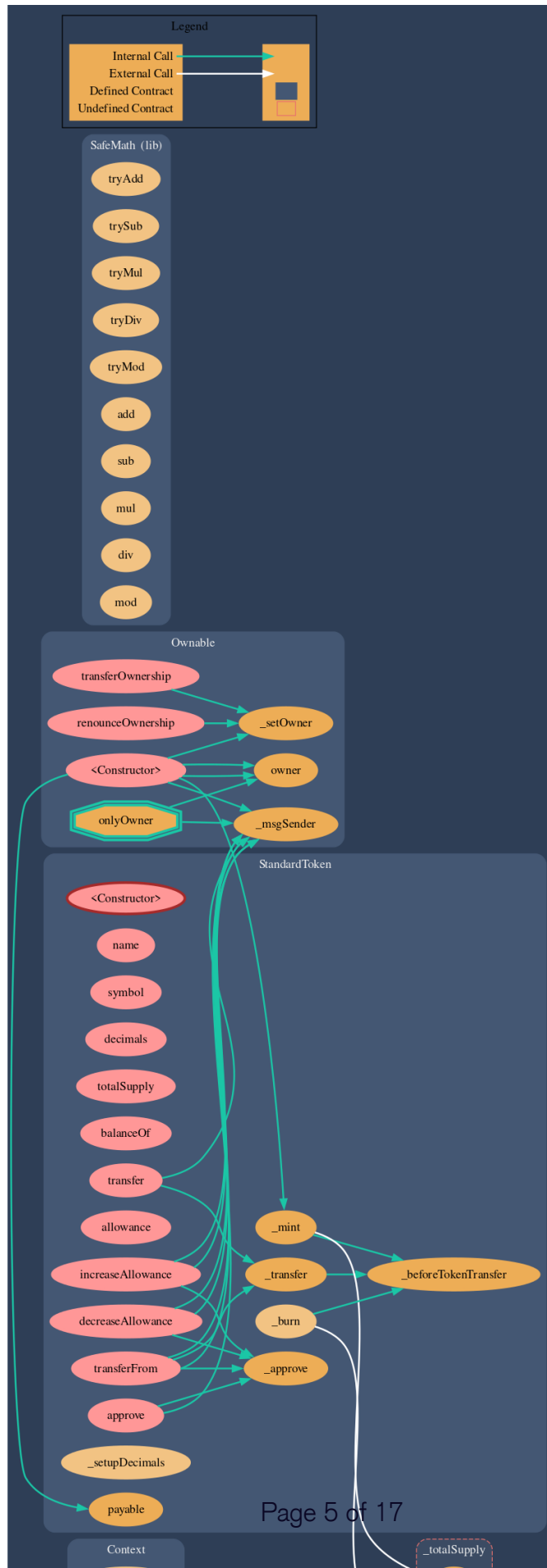
TestNet Contract was Not Assessed

Solidity Code Provided

SolidID	File Sha-1	FileName
CRAZE	995f0e16243eff9f4e673dd69fcef47a0f8f09d0	CRAZE.sol
CRAZE		.sol
CRAZE		.sol
CRAZE		.sol
CRAZE		.sol
CRAZE		.sol

Call Graph

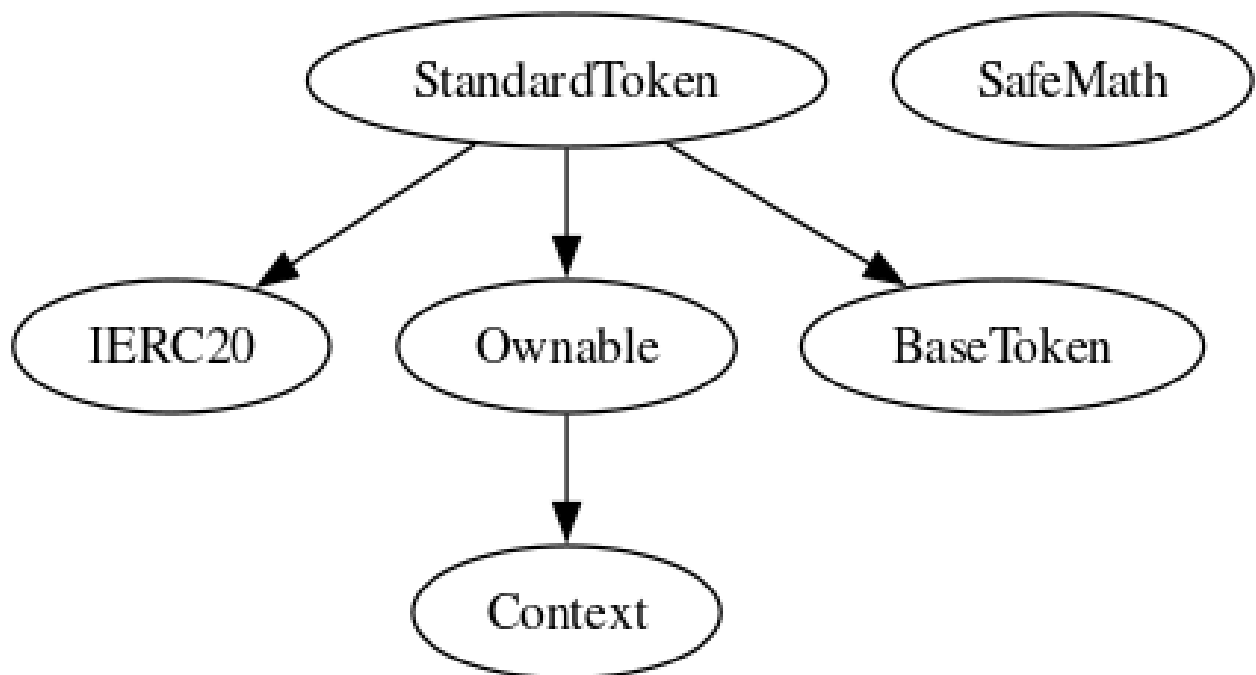
The contract for CRAZE has the following call graph structure.





Inheritance

The contract for CRAZE has the following inheritance structure.

The Project has a Total Supply of 100,000,000



CRAZE-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Low	CRAZE.sol: L: 169 C: 12	 Detected

Description

The given input is missing the check for the non-zero address.

The given input is missing the check for the onlyOwners need to be revisited for require..



Remediation

We advise the client to add the check for the passed-in values to prevent unexpected errors as below:

```
...
require(receiver != address(0), "Receiver is the zero address");
...
...
require(value X limitation, "Your not able to do this function");
...
```

We also recommend customer to review the following function that is missing a required validation. onlyOwners need to be revisited for require..

CRAZE-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Low	CRAZE.sol: L: 169 C: 12, L: 177 C: 12	 Detected



Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes. The linked code does not create an event for the transfer.

Remediation

Emit an event for critical parameter changes. It is recommended emitting events for the sensitive functions that are controlled by centralization roles.

CRAZE-14 | Unnecessary Use Of SafeMath

Category	Severity	Location	Status
Logical Issue	 Medium	CRAZE.sol: L: 205	 Detected

Description

The SafeMath library is used unnecessarily. With Solidity compiler versions 0.8.0 or newer, arithmetic operations

will automatically revert in case of integer overflow or underflow.

library SafeMath {

An implementation of SafeMath library is found.

using SafeMath for uint256;

SafeMath library is used for uint256 type in contract.



Remediation

We advise removing the usage of SafeMath library and using the built-in arithmetic operations provided by the

Solidity programming language

Project Action

CRAZE-20 | Lack of Reentrancy Guard .

Category	Severity	Location	Status
	 Low	CRAZE.sol:	 Detected

Description

The contract does not explicitly implement reentrancy guards.






Remediation

Add reentrancy guards (nonReentrant modifier) for future-proofing.






Project Action

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.
 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	Resolved
 Critical	0	0	0
 High	0	0	0
 Medium	2	1	0
 Low	2	3	0
 Informational	0	0	0
Total	4	4	0

Social Media Checks

Social Media	URL	Result
Twitter	https://x.com/crazetokeneth	Pass
Other		N/A
Website	https://crazetoken.io/	Pass
Telegram	https://t.me/crazetokenofficial	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	86/100
Auditor Score	85/100
Review by Section	Score
Manual Scan Score	22
Auto Scan Score	37
Advance Check Score	27

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below.

Audit Passed



Assessment Results

Important Notes:

- Contract Structure: Follows standard ERC20 implementation. Uses OpenZeppelin libraries for security and reliability.␣
- Ownership: Owner has significant control (minting, ownership transfer). Ensure owner is trustworthy and follows best practices.␣
- Token Minting: `_mint` function allows creation of new tokens. Monitor for unexpected supply changes.␣
- Allowance Handling: Potential race condition in `approve` function. Recommend using `increaseAllowance` and `decreaseAllowance` for safety.␣
- SafeMath Usage: Ensures arithmetic safety. Solidity 0.8+ has built-in overflow checks, making SafeMath redundant but safe.␣
- Service Fee: Constructor transfers a service fee to a specified address. Verify the correctness of the service fee and recipient.␣
- Gas Optimization: Consider removing SafeMath for gas savings (optional, given Solidity 0.8+).␣
- Reentrancy: No direct reentrancy vulnerabilities, but consider adding reentrancy guards for future-proofing.␣
- Event Emissions: Proper event emissions for state-changing operations (Transfer, Approval).␣
- Zero Address Checks: Adequate checks for zero addresses

in critical functions.

Auditor Score =85
Audit Passed



Appendix

Finding Categories

Centralization / Privilege

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

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM 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 how `block.timestamp` works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being 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 may result in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the 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 requirements on the input variables than a setter function.

Coding Best Practices

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

Disclaimer

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