

Security Assessment: Omira TOKEN

December 3, 2024





- Audit Status: **Pass**
- Audit Edition: **Advance**

「
Omira
Labs
」
































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	5%
 Sale Tax	5%
 Cannot Buy	Pass
 Cannot Sale	Pass
 Max Tax	5%
 Modify Tax	Yes
 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?	Detected
 Is Anti Bot?	Not-Detected

Contract Privilege	Description
 Is Blacklist?	Not-Detected
 Blacklist Check	Pass
 is Whitelist?	Detected
 Can Mint?	Pass
 Is Proxy?	Not Detected
 Can Take Ownership?	Not Detected
 Hidden Owner?	Not-Detected
 Owner	0xbA3A77C7f03F6E12cD893f8DE76bf283Fa0Ff91d
 Self Destruct?	Not Detected
 External Call?	Not-Detected
 Other?	Not Detected
 Holders	335
 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	0x06113abCeF9D163C026441b112e70c82EE1c4A79
Name	Omira
Token Tracker	Omira (OMIRA)
Decimals	18
Supply	100,000,000
Platform	ETHEREUM
compiler	v0.8.26+commit.8a97fa7a
Contract Name	Omira
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/address/0x06113abCeF9D163C026441b112e70c82EE1c4A79#code
Payment Tx	Corporate

Main Contract Assessed Contract Name

Name	Contract	Live
Omira	0x06113abCeF9D163C026441b112e70c82EE1c4A79	Yes

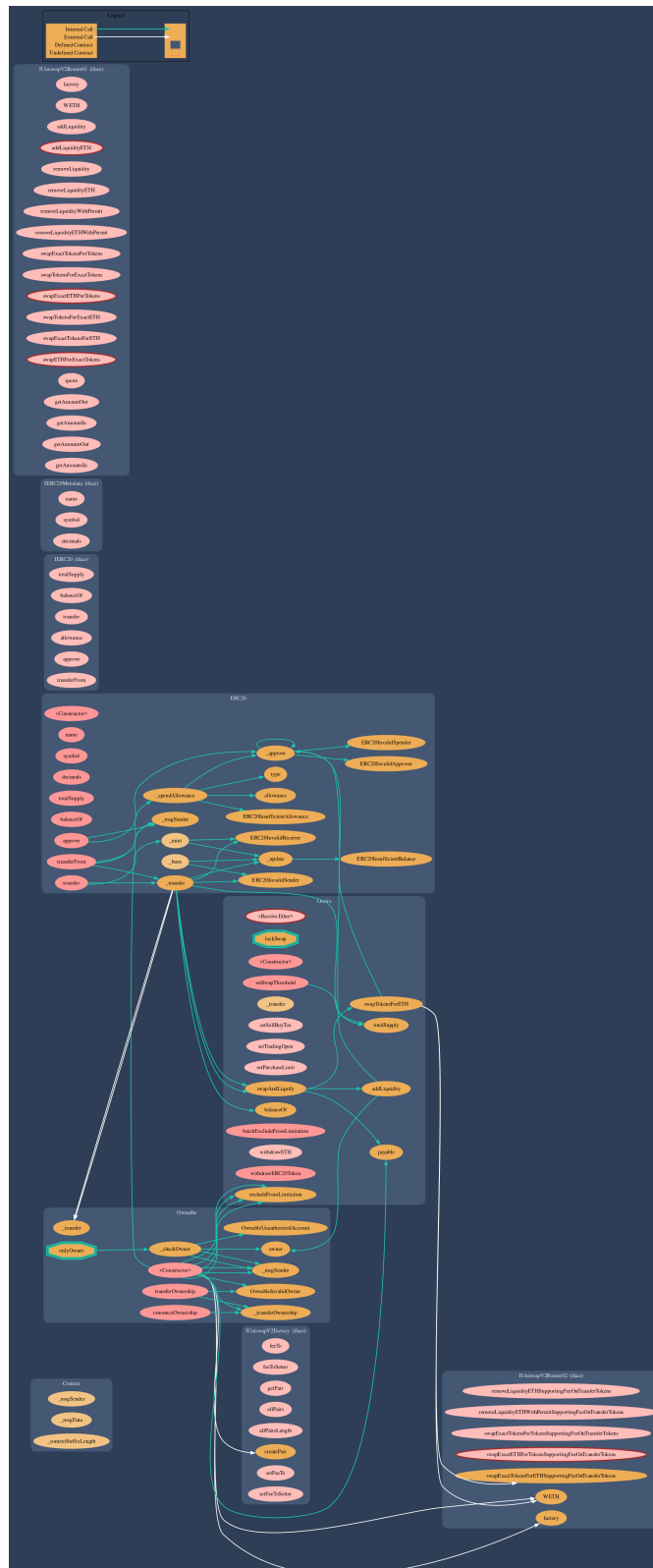
TestNet Contract was Not Assessed

Solidity Code Provided

SolidID	File Sha-1	FileName
Omira	31d0ae398bba3a7312ff3cc9b0c5a2157a214bc7	Omira.sol
Omira		.sol
Omira		.sol
Omira		.sol
Omira		.sol
Omira		.sol

Call Graph

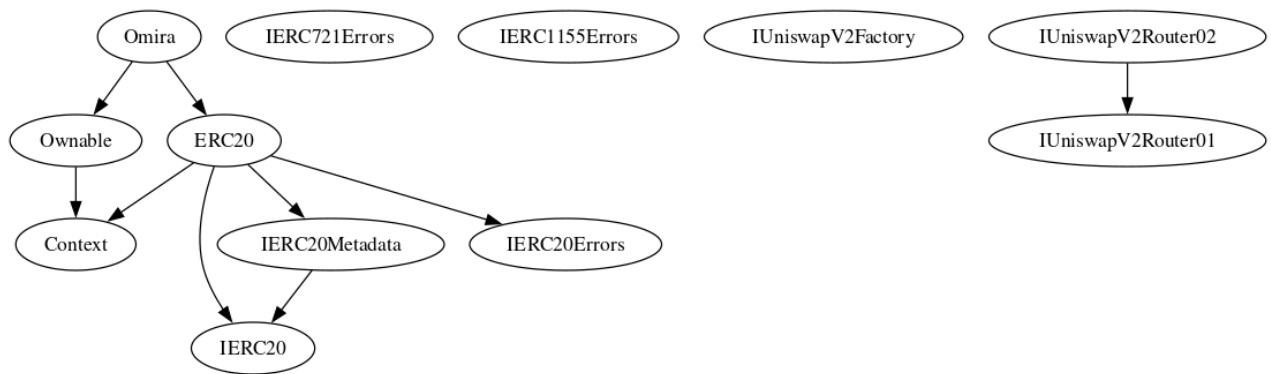
The contract for Omira has the following call graph structure.



Inheritance

The contract for Omira has the following inheritance structure.

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





Privileged Functions (onlyOwner)

Please Note if the contract is Renounced none of this functions can be executed.

Function Name	Parameters	Visibility
renounceOwnership		Public
transferOwnership		Public
setSellBuyTax		External
setTradingOpen		External
setPurchaseLimit		External
setSwapThreshold		Public
excludeFromLimitation		Public
batchExcludeFromLimitation		Public
withdrawETH		External
withdrawERC20Token		Public

OMIRA-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	 Low	Omira.sol: L: 126 C: 12, L: 134 C: 12, L: 1090 C: 12, L: 1105 C: 12, L: 1114 C: 12, L: 0 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..

OMIRA-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	 Low	Omira.sol: L: 126 C: 12, L: 134 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.

OMIRA-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	 Critical	Omira.sol: L: 0 C: 14	 Detected

Description



Enable Trade is present on the following contract and when combined with Exclude from fees it can be considered a whitelist process, this will allow anyone to trade before others and can represent an issue for the holders.

Remediation

We recommend the project owner to carefully review this function and avoid problems when performing both actions.

Project Action

OMIRA-19 | Centralization Privileges of onlyOwner.

Category	Severity	Location	Status
	 Medium	Omira.sol: L: 0 C: 14	 Detected

Description

Centralized Privileges are found on the following functions.






Remediation

Inheriting from Ownable and calling its constructor on yours ensures that the address deploying your contract is registered as the owner. The onlyOwner modifier makes a function revert if not called by the address registered as the owner.






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	1	1	0
 High	0	0	0
 Medium	1	1	0
 Low	2	2	0
 Informational	0	0	0
Total	4	4	0

Social Media Checks

Social Media	URL	Result
Twitter	https://x.com/OmiraAI	Pass
Other		N/A
Website	https://omira.tech/	Pass
Telegram	https://t.me/OmiraAI	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	29
Auto Scan Score	37
Advance Check Score	20

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: Uses OpenZeppelin libraries for ERC20, Ownable, and Context, ensuring standard compliance.␣
- Ownership and Control: Owner can modify critical parameters (tax rates, trading status). Consider implementing multi-signature or DAO governance for critical functions.␣
- Trading and Liquidity: Trading can be paused; ensure this is communicated to users. Swap and liquify mechanism is protected by lockSwap to prevent reentrancy.␣
- Taxation and Fees: Owner can adjust buy/sell tax rates. Ensure changes are transparent and justified to the community.␣
- Withdrawal Functions: Owner can withdraw ETH and ERC20 tokens. Ensure secure handling of private keys to prevent unauthorized access.␣
- Exclusion from Limitations: Owner can exclude accounts from trading limits. Monitor for potential misuse or favoritism.␣
- Gas Efficiency: Batch exclusion function could be optimized to prevent high gas cost.␣
- Security Practices: Consider implementing additional security measures like time-locks.␣



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

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocacy for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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