ASSURE DEFI®
THE VERIFICATION GOLD STANDARD

Security Assessment:

Yieldrone Token

February 13, 2024

- Audit Status: **Pass**
- Audit Edition: **Standard**

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 Privilege	Description
Buy Tax	3%
Sale Tax	3%
Cannot Sale	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?	Fail
Is Anti Whale?	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	0x7E7E01aAE6cB1d6f1f58D7EEC76D7CB9cA082D63
Self Destruct?	Not Detected
External Call?	Detected
Other?	Not Detected
Holders	1
Auditor Confidence	Medium Risk
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	0x376E23Eb751b4722ceEE123C924ACA46F23e1Ca1
Name	Yieldrone
Token Tracker	Yieldrone (YDR)
Decimals	18
Supply	1,000,000
Platform	ETHEREUM
compiler	v0.8.22+commit.4fc1097e
Contract Name	Yieldrone
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/address/0x376e23eb751b4722ceee123c924aca46f23e1ca1#code
Payment Tx	Corporate

Main Contract Assessed Contract Name

Name	Contract	Live
Yieldrone	0x376E23Eb751b4722ceEE123C924ACA46F23e1Ca1	Yes

TestNet Contract Assessed Contract Name

Name	Contract	Live
Yieldrone	0x44FCb6eB101DeAcd7dDf6412d1A0fD7b8e885D74	Yes

Solidity Code Provided

SolID	File Sha-1	FileName
Yieldrone	d42efc97bf94874d9870b125dcff148f4e9f5c90	Yieldrone.sol
Yieldrone		
Yieldrone		
Yieldrone		
Yieldrone		
Yieldrone	undefined	

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	Yieldrone.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	Yieldrone.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	Yieldrone.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	Yieldrone.sol	L: 2 C: 0
SWC-104	Low	Unchecked Call Return Value.	Yieldrone.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	Yieldrone.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	Yieldrone.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	Yieldrone.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	Yieldrone.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	Yieldrone.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	Yieldrone.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	Yieldrone.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	Yieldrone.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	Yieldrone.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	Yieldrone.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-115	Pass	Authorization through tx.origin.	Yieldrone.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	Yieldrone.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	Yieldrone.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	Yieldrone.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	Yieldrone.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	Yieldrone.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	Yieldrone.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	Yieldrone.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	Yieldrone.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	Yieldrone.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	Yieldrone.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	Yieldrone.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	Yieldrone.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	Yieldrone.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	Yieldrone.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	Yieldrone.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	Yieldrone.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	Yieldrone.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	Yieldrone.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	Yieldrone.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	Yieldrone.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	Yieldrone.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-104 - Unchecked Call Return Value.

CWE-252: Unchecked Return Value.

Description:

The return value of a message call is not checked. Execution will resume even if the called contract throws an exception. If the call fails accidentally or an attacker forces the call to fail, this may cause unexpected behaviour in the subsequent program logic.

Remediation:

If you choose to use low-level call methods, make sure to handle the possibility that the call will fail by checking the return value.

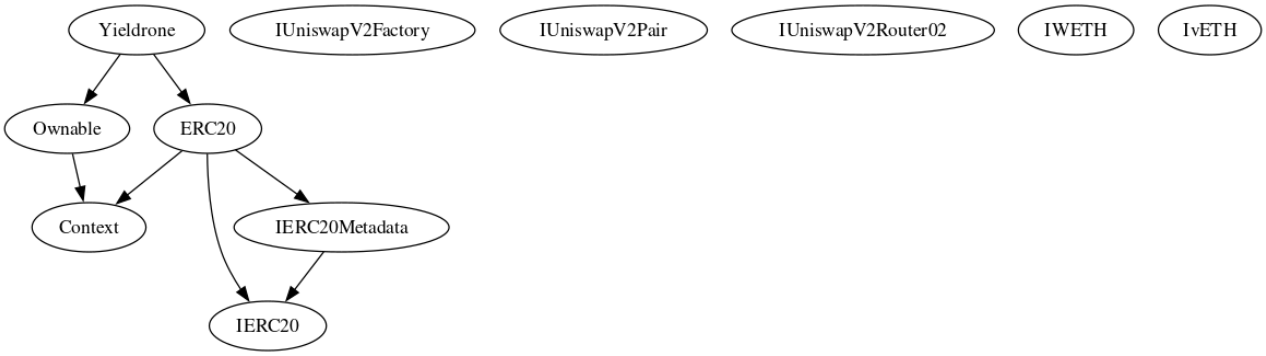
References:

Ethereum Smart Contract Best Practices - Handle errors in external calls.

Inheritance

The contract for Yieldrone has the following inheritance structure.

The Project has a Total Supply of 1,000,000



Privileged Functions (onlyOwner)

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

Function Name	Parameters	Visibility
renounceOwnership		Public
transferOwnership	address newOwner	Public
withdrawStuckEth		External
withdrawStuckToken		External
updateTeamWallet		External
excludeFromMaxTransaction		External
excludeFromFees		External
updateSellFees		External
updateBuyFees		External
updateSwapEnabled		External
updateSwapTokensAtPercent		External

YDR-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	Low	Yieldrone.sol: L: 1212, C: 14,L: 1206, C: 14,L: 1200, C: 14	Detected

Description

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

The given input is missing the check for the missing required function.

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. missing required function.

YDR-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	Low	Yieldrone.sol: L: 1229, C: 14,L: 1219, C: 14,L: 1229, C: 14,L: 1184, C: 14,L: 1172, C: 14, L: 1163, C: 14,L: 1142, C: 14,L: 1139, C: 14,L: 908, C: 14,	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.

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

Social Media Checks

Social Media	URL	Result
Twitter	https://x.com/Yieldrone	Pass
Other	https://github.com/Yieldrone	Pass
Website	https://yieldrone.xyz	Pass
Telegram	https://t.me/YieldroneCommunity	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	89/100
Auditor Score	85/100
Review by Section	**Score**
Manual Scan Score	20
SWC Scan Score	35
Advance Check Score	34

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 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:

- The Contract has been renounced.

Auditor Score =85
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 owner-only 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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