Security Assessment:
Tradelight TOKEN

January 18, 2025

- Audit Status: **Fail**
- 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%
ℹ️ 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?	Not-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
ℹ️ Owner	No
🟢 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	
Name	Tradelight
Token Tracker	Tradelight (Tradelight)
Decimals	9
Supply	
Platform	BNBCHAIN
compiler	v0.8.20+commit.a1b79de6
Contract Name	Tradelight
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/#code
Payment Tx	Corporate

Main Contract Assessed
Contract Name

Name	Contract	Live
Tradelight		Yes

TestNet Contract was Not Assessed

Solidity Code Provided

SolID	File Sha-1	FileName
tradelight	d4dddd5122907edc3f3e310a2f411121d897aa4e	tradelight.sol
tradelight		.sol
tradelight		.sol
tradelight		.sol
tradelight		.sol
tradelight		.sol

Call Graph

The contract for Tradelight has the following call graph structure.
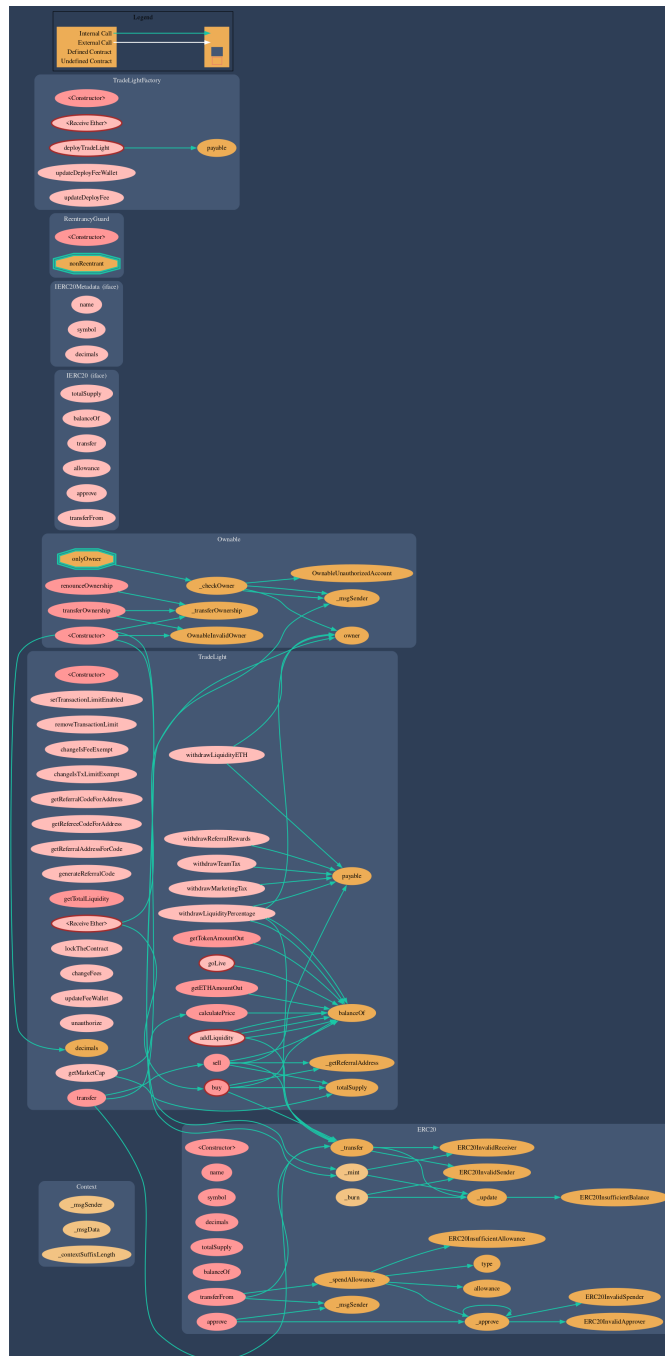
Inheritance

The contract for Tradelight has the following inheritance structure.

The Project has a Total Supply of
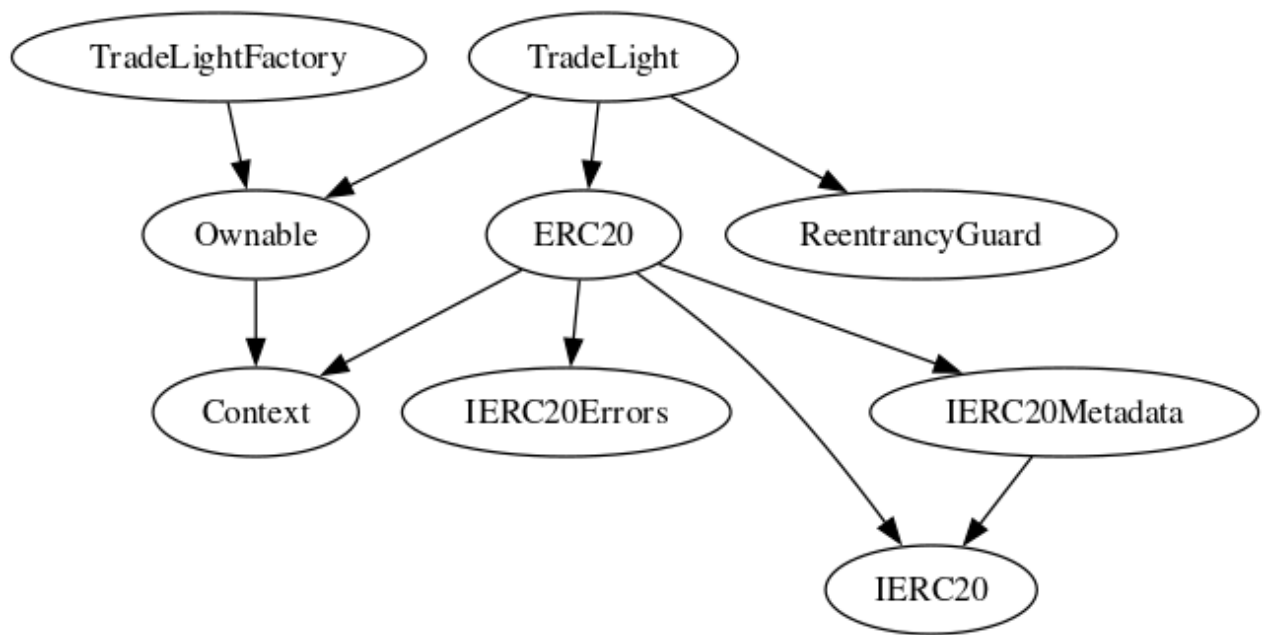
Privileged Functions (onlyOwner)

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

Function Name	Parameters	Visibility
renounceOwnership		Public
transferOwnership		Public
updateDeployFeeWallet		External
updateDeployFee		External
setTransactionLimitEnabled		External
removeTransactionLimit		External
changeIsFeeExempt		External
changeIsTxLimitExempt		External
goLive		External
withdrawTeamTax		External
withdrawMarketingTax		External
addLiquidity		External
lockTheContract		External
withdrawLiquidityETH		External

Function Name	Parameters	Visibility
withdrawLiquidityPercentage		External
changeFees		External
updateFeeWallet		External
unauthorize		External

Tradelight-03 | Lack of Input Validation.

Category	Severity	Location	Status
Volatile Code	🟢 Low	tradelight.sol: L: 61 C: 12, L: 65 C: 12, L: 365 C: 12, L: 369 C: 12, L: 373 C: 12, L: 377 C: 12, L: 605 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..

Tradelight-05 | Missing Event Emission.

Category	Severity	Location	Status
Volatile Code	🟢 Low	tradelight.sol: L: 61 C: 12, L: 65 C: 12, L: 288 C: 12, L: 293 C: 12, L: 365 C: 12, L: 369 C: 12, L: 373 C: 12, L: 377 C: 12, L: 549 C: 12, L: 558 C: 12, L: 605 C: 12, L: 609 C: 12, L: 616 C: 12, L: 655 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.

Tradelight-18 | Stop Transactions by using Enable Trade.

Category	Severity	Location	Status
Logical Issue	🔴 Critical	tradelight.sol: L: 400 C: 14	Detected

Description

Enable Trade is presend 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 and issue for the holders.

Remediation

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

Project Action

Tradelight-19 | Centralization Privileges of.

Category	Severity	Location	Status
	🟡 Medium	tradelight.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		Fail
Other		N/A
Website		Fail
Telegram		Fail

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:

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OFFICIAL
PARTNER

Assessment Results

Score Results

Review	Score
Overall Score	83/100
Auditor Score	83/100
Review by Section	Score
Manual Scan Score	26
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 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 Fail

Assessment Results

Important Notes:

- Security Concerns

- Reentrancy: The nonReentrant modifier is used, which is good practice. Ensure all state changes are made before any external calls.

- Access Control: Critical functions are protected with onlyOwner. Ensure the owner account is secure and consider using a multisig wallet for added security.

- Arithmetic Operations: Unchecked arithmetic is used. Ensure inputs are validated to prevent overflow/underflow issues.

- External Calls: Usage of call for ETH transfers can be risky. Consider using transfer or send for fixed gas stipends to prevent reentrancy.

- Liquidity Management: The owner can withdraw liquidity, which could be misused. Ensure this capability is well-documented and understood by users.

- Fee Exemption: The owner has control over isFeeExempt and isTxLimitExempt mappings. This could lead to unfair advantages if misused.

- Referral System: Ensure the referral code logic is robust to prevent abuse or gaming.

- Unauthorized Addresses: The unauthorize function allows marking addresses as unauthorized. Ensure this is used responsibly and documented.

• Fallback Function: The fallback function automatically triggers a buy operation. This could be unexpected for users sending ETH directly to the contract. Ensure this behavior is clearly documented.ı

• Slippage Checks: Slippage checks are implemented in the buy and sell functions. Ensure these checks are robust and correctly handle edge cases to prevent significant user losses.

Auditor Score =83
Audit Fail

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.

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