CFG NINJA AUDITS

Security Assessment

Wallphy Token

June 17, 2022

Table of Contents

Audit Summary

This report has been prepared for Wallphy Token on the Ethereum network. CFGNINJA provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.

Project Overview

Token Summary

Parameter	Result
Address	0x51E06c3468C230BE0aEAeAc44CD7Be5dd7Fed4D9
Name	Wallphy
Token Tracker	Wallphy (Wallphy)
Decimals	18
Supply	1,000,000,000,000,000
Platform	Ethereum
compiler	v0.7.6+commit.7338295f
Contract Name	Wallphy
Optimization	Yes with 200 runs
LicenseType	Unlicensed
Language	Solidity
Codebase	https://bscscan.com/token/0xe55bd75d7ce7bfde26a347a748d080d3acda7ffe
Payment Tx	0x3fe342be95a75e6ad20ee16f15240acc2b4916544a1fa1682b01364c9237dab8

Project Overview

Risk Analysis Summary

Parameter	Result
Buy Tax	15%
Sale Tax	15%
Is honeypot?	Clean
Can edit tax?	Yes
Is anti whale?	No
Is blacklisted?	Yes
Is whitelisted?	No
Holders	Clean
Security Score	98/100
Auditor Score	98/100
Confidence Level	High

The following quick summary has been added to the project overview, however there are more details about the audit and their results please read every details.

Main Contract Assessed Contract Name

Name	Contract	Live
Wallphy	0x51E06c3468C230BE0aEAeAc44CD7Be5dd7Fed4D9	Yes

TestNet Contract Assessed Contract Name

Name	Contract	Live
Wallphy	0xa8dbB0df2Bb9BA5FF4d1783539408F7C51e58115	Yes

Solidity Code Provided

SolID	File Sha-1	FileName
Wallphy	354c23fb8f0164aa367a16b231df314c07488431	Wallphyv3.sol
Wallphy		
Wallphy		

Smart Contract Vulnerability Checks

Vulnerability	Automatic Scan	Manual Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions With Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Griefing	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk

Mint Check

The Project Owners of Wallphy does not have a mint function in the contract, owner cannot mint tokens after initial deploy

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The Project has a Total Supply of 1,000,000,000,000,000 and cannot mint any more than the Max Supply.

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Mint Notes:

Auditor Notes: A Mint Function was not found during the code review

Project Owner Notes:

Owner can't mint new coins

Fees Check

The Project Owners of Wallphy does not have the ability to set fees higher than 25% .

Team May have fees defined, however they dont have the ability to set those fees higher than 25%.

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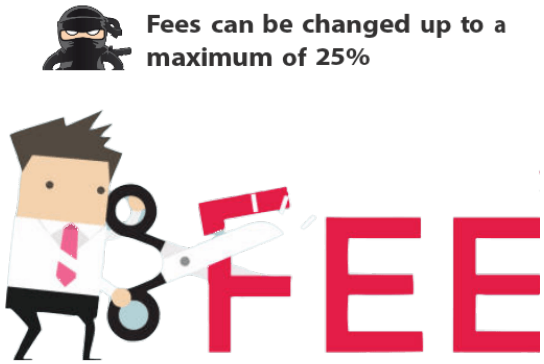
Tax Fee Notes:

Auditor Notes: Tax Recommendation to Project team was to limit it to 25%, the project team accepted this feedback and implemented the changes.

Project Owner Notes: .



MaxTx Check

The Project Owners of Wallphy can set max tx amount.

The ability to set MaxTx can be used as bad actor, this can limit the ability of investors to sale their tokens at any given time if is set too low..

We recommend the project to set MaxTx to Total Supply or simiar to avoid swap or transfer from failures

MaxTX Notes:

Auditor Notes: We recommended the team to have a limit in terms of the MaxWallet to avoid investors from being locked out.

Project Owner Notes: Project Owner Implemented the Following. require(newMaxTxAmount > _tTotal.mul(5).div(10000), 'MaxTxAmount Tow Low')

Project Has MaxTX

Pause Trade Check

The Project Onwers of Wallphy Owner can pause trading but he can't move tokens (Owner can't pause trading)

The Team has done a great job to avoid stop trading, and investors has the ability to trade at any given time without any problems

Pause Trade Notes:

Auditor Notes: test

Project Owner Notes:

Contract Ownership

The contract ownership of Wallphy is not currently renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0xe72341a2249b99600a90fd083dcb73401515ac88 which can be viewed from:
HERE

The owner wallet has the power to call the functions displayed on the priviliged functions chart below, if the owner wallet is compromised this privileges could be exploited.

We recommend the team to renounce ownership at the right timing if possible, or gradually migrate to a timelock with governing functionalities in respect of transparency and safety considerations.

We recommend the team to use a Multisignature Wallet if contract is not going to be renounced, this will give the ability to the team to have more control over the contract.

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 18234546

KYC Information

The Project Onwers of Wallphy has provided KYC Documentation.

KYC Certificated can be found on the Following:
KYC Data

KYC Information Notes:

Auditor Notes: Asked project owner about KYC or Doxxed

Project Owner Notes: Project Team is Fully Doxxed and their linked in can be found on whitepaper and website.

Mythx Security Summary Checks

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	Wallphyv3.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	Wallphyv3.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	Wallphyv3.sol	L: 0 C: 0
SWC-103	Pass	A floating pragma is set.	Wallphyv3.sol	L: 5 C: 0
SWC-104	Pass	Unchecked Call Return Value.	Wallphyv3.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	Wallphyv3.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	Wallphyv3.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	Wallphyv3.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	Wallphyv3.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	Wallphyv3.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	Wallphyv3.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	Wallphyv3.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	Wallphyv3.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	Wallphyv3.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-114	Pass	Transaction Order Dependence.	Wallphyv3.sol	L: 0 C: 0
SWC-115	Pass	Authorization through tx.origin.	Wallphyv3.sol	L: 474 C: 15
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	Wallphyv3.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	Wallphyv3.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	Wallphyv3.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	Wallphyv3.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randonmness.	Wallphyv3.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	Wallphyv3.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	Wallphyv3.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	Wallphyv3.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	Wallphyv3.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	Wallphyv3.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	Wallphyv3.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	Wallphyv3.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	Wallphyv3.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-129	Pass	Typographical Error.	Wallphyv3.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U +202E).	Wallphyv3.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	Wallphyv3.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	Wallphyv3.sol	L: 0 C: 0
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	Wallphyv3.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	Wallphyv3.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	Wallphyv3.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	Wallphyv3.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry standard security scanning tool

Security Check Details Page

SWC Information Notes:

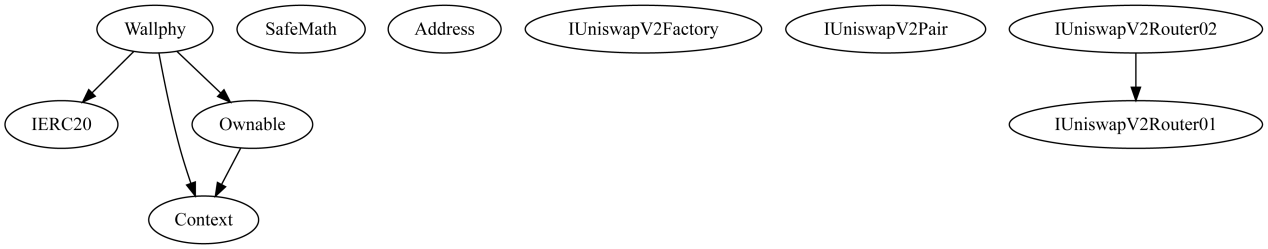
Auditor Notes: No Vulnerabilities where found during the security scan, however we did notice they used an older compiler version instead of latest of 0.8.14. Important to read about the bugs associated with 0.7.6 https://docs.soliditylang.org/en/v0.7.6/bugs.html#

Project Owner Notes:

Call Graph and Inheritance

The contract for Wallphy has the following call graph structure

The Project has a Total Supply of 1,000,000,000,000,000 and has the following inheritance



Top Token Holders

The contract for Wallphy has the following top token holders

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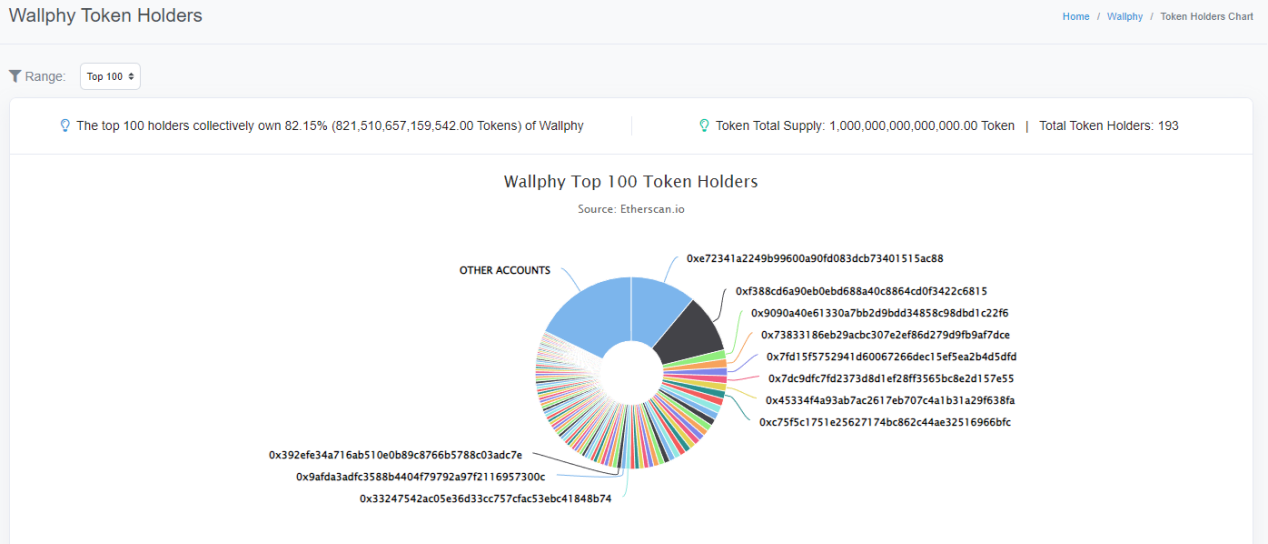

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
conductAirdrop		external
excludeFromFee	address account	public
includeInFee	address account	public
setRouterAddress		external
setBlacklist	bool _flag	external
setTaxFeePercent	bool _flag	external
setLiquidityFeePercent	address _autoLiquidityReceiver address _treasuryReceiver address _AUTOFIInsuranceFundReceiver address _firePit uint256 liquidityFee	external
setAdditionalTax	address _addr	external
setAdditionalTaxThreshold		external
setMaxTxPercent		public
setSwapAndLiquifyEnabled	address _address	external
setSwapAndSendDevEnabled	address _address	external

Function Name	Parameters	Visibility
setDevWallet	address _address	external
setTaxOnlyDex		external

Important Notes To The Users:

- Wallphy Team are a dedicated project team, they are looking to ensure the project is successful and are taking the necessary steps to do so.
- Owner can't charge fees up to 25%.
- Owner can set max tx amount.
- Owner can't pause trading.
- No high-risk Exploits/Vulnerabilities Were Found in the Source Code.

Audit Passed

Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/WallphyLLC?t=ZTUjH9XKmZDecoqgo399EA&s=09	Pass
Reddit		Fail
Website	https://www.wallphy.io	Pass
Telegram	https://t.me/WallphyLLCOfficial	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: Project Owner state they have plans to launch a discord server.

Disclaimer

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