

AUDIT REPORT

January 2024



Audit conducted by
RICARDO PONTES

Summary

Auditing Firm	Crypto Hub
Architecture	Crypto Hub Auditing Standard
Smart Contract Audit Approved By	Ricardo Blockchain Dev at Crypto Hub
Platform	Solidity
Mandatory Audit Check	Static, Software & Manual Analysis
Consultation Request Date	January 6, 2023
Report Date	January 7, 2023

Audit Summary

Crypto Hub team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

- ★ Zpunks smart contract source code has **LOW RISK SEVERITY**.
- ★ Zpunks has **PASSED** the smart contract audit.

For the detailed understanding of risk severity, source code vulnerability, and functional test, kindly refer to the audit.

✅ Verify the authenticity of this report on Crypto Hub Website:

<https://www.cryptohub.agency/>



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Project Overview

Crypto Hub was consulted by Zpunks to conduct the smart contract security audit of their solidity source code.

Project	Zpunks
Blockchain	Polygon Mainnet
Language	Solidity
Contracts	0xE09473eD3C1D317D3601290AE7bC511d7E16e62f
Website:	https://zpunks.online/

Public logo:



Solidity Source Code On Blockchain (Verified Contract Source Code)

<https://polygonscan.com/token/0xe09473ed3c1d317d3601290ae7bc511d7e16e62f#code>

Contract Name: LiquidityGeneratorToken

Compiler Version: v0.8.4

Optimization Enabled: yes

SHA-1 Hash

Solidity source code is audited at hash

#4aeaf4531f6ac865c314c0d619ca9aea5eeca8bd



Audit Scope & Methodology

The scope of this report is to audit the above smart contract source code and Crypto Hub has scanned the contract and reviewed the project for common vulnerabilities, exploits, hacks, and back-doors. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

Smart Contract Vulnerabilities

- ☐ Re-entrancy
- ☐ Unhandled Exceptions
- ☐ Transaction Order Dependency
- ☐ Integer Overflow
- ☐ Unrestricted Action
- ☐ Incorrect Inheritance Order
- ☐ Typographical Errors
- ☐ Requirement Violation

Source Code Review

- ☐ Ownership Takeover
- ☐ Gas Limit and Loops
- ☐ Deployment Consistency
- ☐ Repository Consistency
- ☐ Data Consistency
- ☐ Token Supply Manipulation

Functional Assessment

- ☐ Access Control and Authorization
- ☐ Operations Trail and Event Generation
- ☐ Assets Manipulation
- ☐ Liquidity Access



Crypto Hub Audit Standard

The aim of Crypto Hub standard is to analyze the smart contract and identify the vulnerabilities and the hacks in the smart contract. Mentioned are the steps used by Crypto Hub to assess the smart contract:

1. Solidity smart contract source code reviewal:

- ❖ Review of the specifications, sources, and instructions provided to Crypto Hub to make sure we understand the size, scope, and functionality of the smart contract.
- ❖ Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.

2. Static, Manual, and Software analysis:

- ❖ Test coverage analysis, which is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
- ❖ Symbolic execution, which is analyzing a program to determine what inputs cause each part of a program to execute.

3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.

4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts

Automated 3P frameworks used to assess the smart contract vulnerabilities

- ❖ Slither
- ❖ Consensys MythX
- ❖ Consensus Surya
- ❖ Open Zeppelin Code Analyzer
- ❖ Solidity Code Compiler



Crypto Hub's Risk Classification

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract: Vulnerable:

A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false-positive.

Exploitable: A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the “vulnerability” flagged by a tool is in a function which requires to own the contract, it would be vulnerable but not exploitable.

Exploited: A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

Risk severity	Meaning
! Critical	This level of vulnerability could be exploited easily, and can lead to asset loss, data loss, asset manipulation, or data manipulation. They should be fixed right away.
! High	This level vulnerabilities are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to critical risk severity
! Medium	This level of vulnerabilities should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution.
! Low	This level of vulnerability can be ignored. They are code style violations, and informational statements in the code. They may not affect the smart contract execution



Smart Contract Risk Assessment

Contract Snapshot

```
// pragma solidity =0.8.4;

enum TokenType {
    standard,
    antiBotStandard,
    liquidityGenerator,
    antiBotLiquidityGenerator,
    baby,
    antiBotBaby,
    buybackBaby,
    antiBotBuybackBaby
}

abstract contract BaseToken {
    event TokenCreated(
        address indexed owner,
        address indexed token,
        TokenType tokenType,
        uint256 version
    );
}

// Root file: contracts/liquidity-generator/LiquidityGeneratorToken.sol

pragma solidity =0.8.4;

// import "@openzeppelin/contracts/token/ERC20/IERC20.sol";
// import "@openzeppelin/contracts/access/Ownable.sol";
// import "@openzeppelin/contracts/utils/math/SafeMath.sol";
// import "@openzeppelin/contracts/utils/Address.sol";
// import "contracts/interfaces/IUniswapV2Router02.sol";
// import "contracts/interfaces/IUniswapV2Factory.sol";
// import "contracts/BaseToken.sol";

contract LiquidityGeneratorToken is IERC20, Ownable, BaseToken {
    using SafeMath for uint256;
    using Address for address;

    uint256 public constant VERSION = 2;

    uint256 public constant MAX_FEE = 10**4 / 4;
```



Static / Quick Analysis

Contract Security



Contract source code verified

This token contract is open source. You can check the contract code for details. Unsourced token contracts are likely to have malicious functions to defraud their users of their assets.



No proxy

There is no proxy in the contract. The proxy contract means contract owner can modify the function of the token and possibly effect the price.



No mint function

Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token.



No function found that retrieves ownership

If this function exists, it is possible for the project owner to regain ownership even after relinquishing it



Owner can't change balance

The contract owner is not found to have the authority to modify the balance of tokens at other addresses.



No hidden owner

No hidden owner address was found for the token. For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.



This token can not self destruct

No self-destruct function found. If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.



No external call risk found

External calls would cause this token contract to be highly dependent on other contracts, which may be a potential risk.



This token is not a gas abuser

No gas abuse activity has been found.



Honeypot Risk

Buy Tax: 3.00% Sell Tax: 2.94%

Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable.



This does not appear to be a honeypot.

We are not aware of any malicious code.



No codes found to suspend trading.

If a suspendable code is included, the token maybe neither be bought nor sold (honeypot risk).



Holders can sell all of the token

Holders can sell all of the token. Some token contracts will have a maximum sell ratio.



The token can be bought

Generally, these unbuyable tokens would be found in Reward Tokens. Such Tokens are issued as rewards for some on-chain applications and cannot be bought directly by users.



No trading cooldown function

The token contract has no trading cooldown function. If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying.



No anti_whale(Unlimited number of transactions)

There is no limit to the number of token transactions. The number of scam token transactions may be limited (honeypot risk).



Anti whale can not be modified

The maximum trading amount or maximum position can not be modified.



Tax can be modified

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens will not be able to be traded (honeypot risk).



No blacklist

The blacklist function is not included. If there is a blacklist, some addresses may not be able to trade normally (honeypot risk).



Whitelist function

The whitelist function is included. Some addresses may not be able to trade normally (honeypot risk).

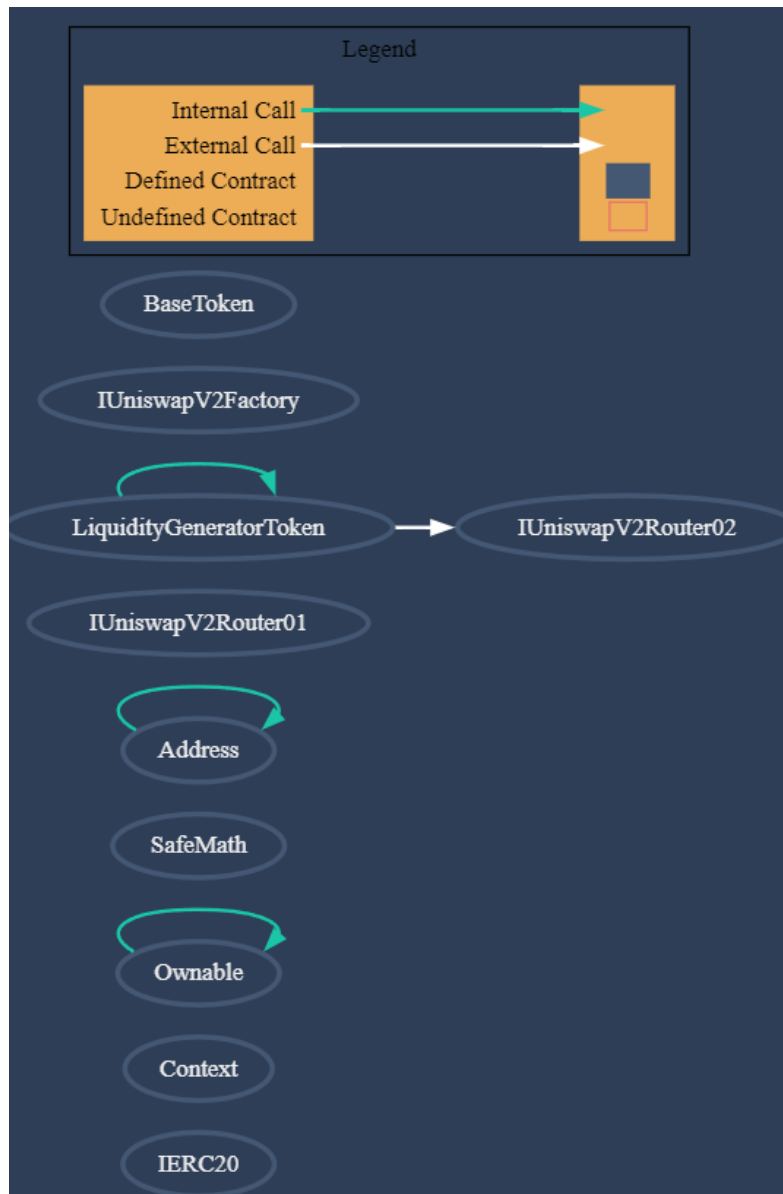
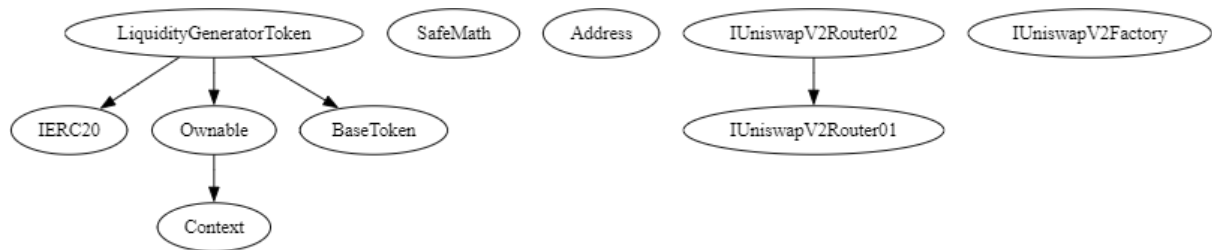


No tax changes found for personal addresses

No tax changes were found for every assigned address. If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading.



Software Analysis



```

| Function Name | Sighash | Function Signature |
|-----|-----|-----|
| totalSupply | 18160ddd | totalSupply() |
| balanceOf | 70a08231 | balanceOf(address) |
| transfer | a9059cbb | transfer(address,uint256) |
| allowance | dd62ed3e | allowance(address,address) |
| approve | 095ea7b3 | approve(address,uint256) |
| transferFrom | 23b872dd | transferFrom(address,address,uint256) |
| owner | 8da5cb5b | owner() |
| renounceOwnership | 715018a6 | renounceOwnership() |
| transferOwnership | f2fde38b | transferOwnership(address) |
| factory | c45a0155 | factory() |
| WETH | ad5c4648 | WETH() |
| addLiquidity | e8e33700 | addLiquidity(address,address,uint256,uint256,uint256,uint256,address,uint256) |
|
| addLiquidityETH | f305d719 | addLiquidityETH(address,uint256,uint256,uint256,address,uint256) |
| removeLiquidity | baa2abde | removeLiquidity(address,address,uint256,uint256,uint256,address,uint256) |
| removeLiquidityETH | 02751cec | removeLiquidityETH(address,uint256,uint256,uint256,address,uint256) |
| removeLiquidityWithPermit | 2195995c |
removeLiquidityWithPermit(address,address,uint256,uint256,uint256,address,uint256,bool,uint8,bytes32,byte
s32) |
| removeLiquidityETHWithPermit | ded9382a |
removeLiquidityETHWithPermit(address,uint256,uint256,uint256,address,uint256,bool,uint8,bytes32,bytes32)
|
| swapExactTokensForTokens | 38ed1739 |
swapExactTokensForTokens(uint256,uint256,address[],address,uint256) |
| swapTokensForExactTokens | 8803dbee |
swapTokensForExactTokens(uint256,uint256,address[],address,uint256) |
| swapExactETHForTokens | 7ff36ab5 | swapExactETHForTokens(uint256,address[],address,uint256) |
| swapTokensForExactETH | 4a25d94a | swapTokensForExactETH(uint256,uint256,address[],address,uint256) |
| swapExactTokensForETH | 18c8afe5 | swapExactTokensForETH(uint256,uint256,address[],address,uint256) |
| swapETHForExactTokens | fb3bdb41 | swapETHForExactTokens(uint256,address[],address,uint256) |
| quote | ad615dec | quote(uint256,uint256,uint256) |
| getAmountOut | 054d50d4 | getAmountOut(uint256,uint256,uint256) |
| getAmountIn | 85f8c259 | getAmountIn(uint256,uint256,uint256) |
| getAmountsOut | d06ca61f | getAmountsOut(uint256,address[]) |
| getAmountsIn | 1f00ca74 | getAmountsIn(uint256,address[]) |
| removeLiquidityETHSupportingFeeOnTransferTokens | af2979eb |
removeLiquidityETHSupportingFeeOnTransferTokens(address,uint256,uint256,address,uint256) |
| removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | 5b0d5984 |
removeLiquidityETHWithPermitSupportingFeeOnTransferTokens(address,uint256,uint256,uint256,address,uint256
,bool,uint8,bytes32,bytes32) |
| swapExactTokensForTokensSupportingFeeOnTransferTokens | 5c11d795 |
swapExactTokensForTokensSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256) |
| swapExactETHForTokensSupportingFeeOnTransferTokens | b6f9de95 |
swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[],address,uint256) |
| swapExactTokensForETHSupportingFeeOnTransferTokens | 791ac947 |
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256) |
| feeTo | 017e7e58 | feeTo() |
| feeToSetter | 094b7415 | feeToSetter() |
| getPair | e6a43905 | getPair(address,address) |
| allPairs | 1e3dd18b | allPairs(uint256) |
| allPairsLength | 574f2ba3 | allPairsLength() |
| createPair | c9c65396 | createPair(address,address) |
| setFeeTo | f46901ed | setFeeTo(address) |
| setFeeToSetter | a2e74af6 | setFeeToSetter(address) |
| name | 06fdde03 | name() |
| symbol | 95d89b41 | symbol() |
| decimals | 313ce567 | decimals() |
| totalSupply | 18160ddd | totalSupply() |
| balanceOf | 70a08231 | balanceOf(address) |
| transfer | a9059cbb | transfer(address,uint256) |
| allowance | dd62ed3e | allowance(address,address) |
| approve | 095ea7b3 | approve(address,uint256) |
| transferFrom | 23b872dd | transferFrom(address,address,uint256) |
| increaseAllowance | 39509351 | increaseAllowance(address,uint256) |
| decreaseAllowance | a457c2d7 | decreaseAllowance(address,uint256) |
| isExcludedFromReward | 88f82020 | isExcludedFromReward(address) |
| totalFees | 13114a9d | totalFees() |
| deliver | 3bd5d173 | deliver(uint256) |
| reflectionFromToken | 4549b039 | reflectionFromToken(uint256,bool) |
| tokenFromReflection | 2d838119 | tokenFromReflection(uint256) |
| excludeFromReward | 52390c02 | excludeFromReward(address) |
| includeInReward | 3685d419 | includeInReward(address) |
| excludeFromFee | 437823ec | excludeFromFee(address) |
| setTaxFeePercent | 061c82d0 | setTaxFeePercent(uint256) |
| setLiquidityFeePercent | 8ee88c53 | setLiquidityFeePercent(uint256) |
| setCharityFeePercent | af41063b | setCharityFeePercent(uint256) |
| setSwapBackSettings | 796431d0 | setSwapBackSettings(uint256) |
| isExcludedFromFee | 5342acb4 | isExcludedFromFee(address) |

```



Soraya's Description Report

Files Description Table

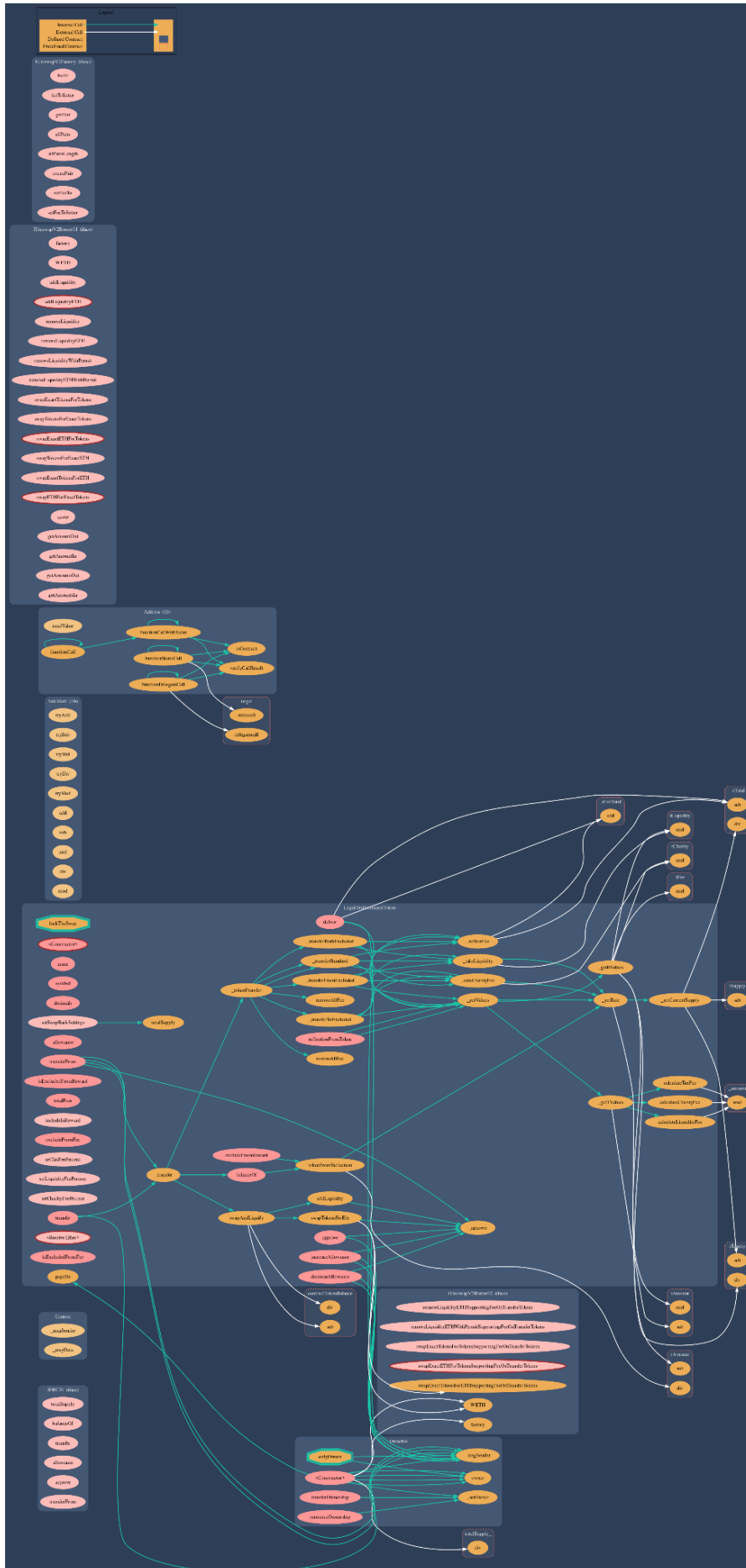
File Name	SHA-1 Hash	
c:\Users\tryptophan\Downloads\Audits\junks.solidity	4386f4531feac86c3d4c8b19c3a3a39eac28b	

Contracts Description Table

Contract	Type	Base	Modifiability	Modifiers
<div>IERC20** Interface []</div> <div><div>totalSupply External [NO]</div><div>balanceOf External [NO]</div><div>transfer External [NO]</div><div>allowance External [NO]</div><div>approve External [NO]</div><div>transferFrom External [NO]</div></div>				
<div>Context** Implementation []</div> <div><div>expander Internal []</div><div>msgData Internal []</div></div>				
<div>Ownable** Implementation Context []</div> <div><div>constructors Public []</div><div>owner Public [NO]</div><div>renounceOwnership Public []</div><div>transferOwnership Public []</div><div>setOwner Private []</div></div>				
<div>SafeMath** Library []</div> <div><div>tryAdd Internal []</div><div>trySub Internal []</div><div>tryMul Internal []</div><div>tryDiv Internal []</div><div>tryMod Internal []</div><div>add Internal []</div><div>sub Internal []</div><div>mul Internal []</div><div>div Internal []</div><div>mod Internal []</div><div>sub Internal []</div><div>div Internal []</div><div>mod Internal []</div></div>				
<div>Address** Library []</div> <div><div>isContract Internal []</div><div>sendRawMsg Internal []</div><div>functionCall Internal []</div><div>functionCallWithValue Internal []</div><div>functionCallWithValueGas Internal []</div><div>functionDelegateCall Internal []</div><div>functionDelegateCallGas Internal []</div><div>verifyCallResult Internal []</div></div>				
<div>UniswapV2Router01** Interface []</div> <div><div>factory External [NO]</div><div>WETH External []</div><div>addLiquidity External [NO]</div><div>addLiquidityETH External []</div><div>removeLiquidity External [NO]</div><div>removeLiquidityETH External [NO]</div><div>removeLiquidityETHSupportingFeeOnTransferTokens External []</div><div>swapExactTokensForETH External [NO]</div><div>swapExactTokensForETHSupportingFeeOnTransferTokens External []</div><div>swapExactETHForTokens External [NO]</div><div>swapExactETHForTokensSupportingFeeOnTransferTokens External []</div><div>swapETHForExactToken External [NO]</div><div>quote External [NO]</div><div>getAmountIn External [NO]</div><div>getAmountOut External [NO]</div><div>getAmountIn External [NO]</div></div>				
<div>UniswapV2Router02** Interface [UniswapV2Router01</div> <div><div>removeLiquidityETHSupportingFeeOnTransferTokens External []</div><div>swapExactTokensForETHSupportingFeeOnTransferTokens External []</div><div>swapExactETHForTokensSupportingFeeOnTransferTokens External []</div><div>swapExactTokensForETHSupportingFeeOnTransferTokens External []</div></div>				
<div>UniswapV2Factory** Interface []</div> <div><div>feeTo External [NO]</div><div>feeToSetter External [NO]</div><div>getPair External [NO]</div><div>allPairs External [NO]</div><div>allPairsLength External [NO]</div><div>createPair External [NO]</div><div>setFeeTo External [NO]</div><div>setFeeToSetter External [NO]</div></div>				
<div>BaseToken** Implementation []</div>				
<div>ILiquidityGenerator** Implementation IERC20, Ownable, BaseToken []</div> <div><div>constructors Public []</div><div>name Public [NO]</div><div>symbol Public [NO]</div><div>decimals Public [NO]</div><div>totalSupply Public [NO]</div><div>balanceOf Public [NO]</div><div>transfer Public [NO]</div><div>allowance Public [NO]</div><div>approve Public [NO]</div><div>transferFrom Public [NO]</div><div>increaseAllowance Public [NO]</div><div>decreaseAllowance Public [NO]</div><div>isEscrowFromForward Public [NO]</div><div>totalFees Public [NO]</div><div>deliver Public [NO]</div><div>reflectOnFeeToken Public [NO]</div><div>tokensFromReflection Public [NO]</div><div>excludeFromReward Public []</div><div>includeFromReward External []</div><div>transferFromExcluded Private []</div><div>excludeFromFee Public []</div><div>setTaxFeePercent External []</div><div>sellTaxFeePercent Private []</div><div>setCharityFeePercent External []</div><div>sellSwapBackSettings External []</div><div>doCloseAuction Private [NO]</div><div>reflectFee Private []</div><div>getValues Private []</div><div>getTotals Private []</div><div>getValues Private []</div><div>getTotals Private []</div><div>getCurrentSupply Private []</div><div>takeLiquidity Private []</div><div>takeCharityFee Private []</div><div>calculateTaxFee Private []</div><div>calculateAuctionType Private []</div><div>calculateCharityFee Private []</div><div>removeAllFee Private []</div><div>restoreAllFee Private []</div><div>isEscrowFromReverse Public [NO]</div><div>approve Private []</div><div>transfer Private []</div><div>sendOut Private []</div><div>swapTokensForETH Private []</div><div>addLiquidity Private []</div><div>tokenTransfer Private []</div><div>transferStandard Private []</div><div>transferExcluded Private []</div><div>transferFromExcluded Private []</div></div>				

Legend

Symbol	Meaning
[]	Function can modify state
[]	Function is payable



SWC Attacks

The following table contains an overview of the SWC registry. Each row consists of an SWC identifier (ID), weakness title, CWE parent and list of related code samples.

The auditor used a MythX tool, A static analyzer that parses the Solidity AST, a symbolic analyzer that detects possible vulnerable states, and a greybox fuzzer that detects vulnerable execution paths.

ID	Description	Status
SWC - 100	Function Default Visibility	✓ Passed
SWC - 101	Integer Overflow and Underflow	✓ Passed
SWC - 102	Outdated Compiler Version	✓ Passed
SWC - 103	Floating Pragma	✓ Passed
SWC - 104	Unchecked Call Return Value	✓ Passed
SWC - 105	Unprotected Ether Withdrawal	✓ Passed
SWC - 106	Unprotected SELFDESTRUCT Instruction	✓ Passed
SWC - 107	Reentrancy Passed	✓ Passed
SWC - 108	State Variable Default Visibility	✓ Passed
SWC - 109	Uninitialized Storage Pointer	✓ Passed
SWC - 110	Assert Violation Passed	✓ Passed
SWC - 111	Use of Deprecated Solidity Functions	✓ Passed
SWC - 112	Delegatecall to Untrusted Callee	✓ Passed
SWC - 113	DoS with Failed Call	✓ Passed
SWC - 114	Transaction Order Dependence	✓ Passed
SWC - 115	Authorization through tx.origin	✓ Passed
SWC - 116	Block values as a proxy for time	✓ Passed
SWC - 117	Signature Malleability	✓ Passed



ID	Description	Status
SWC - 118	Incorrect Constructor Name	✓ Passed

SWC - 119	Shadowing State Variables	✓ Passed
SWC - 120	Weak Sources of Randomness from Chain Attributes	✓ Passed
SWC - 121	Missing Protection against Signature Replay Attacks	✓ Passed
SWC - 122	Lack of Proper Signature Verification	✓ Passed
SWC - 123	Requirement Violation Passed	✓ Passed
SWC - 124	Write to Arbitrary Storage Location	✓ Passed
SWC - 125	Incorrect Inheritance Order Passed	✓ Passed
SWC - 126	Insufficient Gas Griefing	✓ Passed
SWC - 127	Arbitrary Jump with Function Type Variable	✓ Passed
SWC - 128	DoS With Block Gas Limit	✓ Passed
SWC - 129	Typographical Error	✓ Passed
SWC - 130	Right-To-Left-Override control character (U+202E)	✓ Passed
SWC - 131	Presence of unused variables	✓ Passed
SWC - 132	Unexpected Ether balance	✓ Passed
SWC - 133	Hash Collisions With Multiple Variable Arguments	✓ Passed

SWC - 134	Message call with hardcoded gas amount	✓ Passed
SWC - 135	Code With No Effects	✓ Passed
SWC - 136	Unencrypted Private Data On-Chain	✓ Passed



Manual Analysis

Risk Status

Risk severity	Meaning
! Critical	None critical severity issues identified
! High	None high severity issues identified
! Medium	None medium severity issues identified
! Low	None low severity issues identified
Verified	29 functions and instances verified and checked
Safety Score	93 out of 100

Report Summary

Crypto Hub team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks.

Zpunks smart contract source code has **LOW RISK SEVERITY**.

Zpunks has **PASSED** the smart contract audit.



Note for stakeholders:

Be aware that active smart contract owner privileges constitute an elevated impact on smart contract's safety and security.

Make sure that the project team's KYC/identity is verified by an independent firm, e.g., Crypto Hub.

Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the project's longevity. It is recommended to have multiple liquidity providers.

Examine the unlocked token supply in the owner, developer, or team's private wallets. Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period of time.

Ensure that the project's official website is hosted on a trusted platform, and is using an active SSL certificate. The website's domain should be registered for a longer period of time.



Audit & KYC Certificates

We hereby certificate Zpunk smart contract as an audited project under the Crypto Hub enterprise umbrella. And to represent it as such we issued the following certificate:



Legal Advisory

Important Disclaimer

Crypto Hub provides contract auditing and project verification services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code, and to provide a basic overview of the project. This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purposes without Crypto Hub prior written consent.

Crypto Hub provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as an adequate assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only — we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. Be aware that smart contracts deployed on a blockchain aren't resistant from external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security. Therefore, Crypto Hub does not guarantee the explicit security of the audited smart contract.

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

This report should not be considered as an endorsement or disapproval of any project or team. The information provided in this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as such. Do conduct your own due diligence and consult your financial advisor before making any investment decisions.



About Crypto Hub

Crypto Hub provides intelligent blockchain solutions. Crypto Hub is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. Crypto Hub's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy-to-use.

Crypto Hub is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 3+ core team members, and 6+ casual contributors. Crypto Hub provides manual, static, and automatic smart contract analysis, to ensure that the project is checked against known attacks and potential vulnerabilities.

