



Full Audit Report

Dogens Security Assessment





TUESDAY, DECEMBER 20, 2022
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Report Information


About Report	Dogens Security Assessment
Version	v1.3
Client	Dogens
Language	Solidity
Confidentiality	Public
Platform	Ethereum Chain
Contract Address	0x1b4dD5eA240732dDAc8d74FD1Cd9026Addc02e3c
Audit Method	Whitebox

*Audit Method

Whitebox: Securi Team receives all source code from the client to provide the assessment.

Blackbox: Securi Team receives only bytecode from the client to provide the assessment.

Digital Sign (Only Full Audit Report)

DocuSigned by:  DS
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12/19/2022





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Disclaimer

Regarding this security assessment, there are no guarantees about the security of the program instruction received from the client is hereinafter referred to as **"Source code"**.

And **SECURI Lab** hereinafter referred to as **"Service Provider"**, the **Service Provider** will not be held liable for any legal liability arising from errors in the security assessment. The responsibility will be the responsibility of the **Client**, hereinafter referred to as **"Service User"** and the **Service User** agrees not to be held liable to the **service provider** in any case. By contract **Service Provider** to conduct security assessments with integrity with professional ethics, and transparency to deliver security assessments to users The **Service Provider** has the right to postpone the delivery of the security assessment. If the security assessment is delayed whether caused by any reason and is not responsible for any delayed security assessments.

If the **service provider** finds a vulnerability The **service provider** will notify the **service user** via the Preliminary Report, which will be kept confidential for security. The **service provider** disclaims responsibility in the event of any attacks occurring whether before conducting a security assessment. Or happened later All responsibility shall be sole with the **service user**.

Security Assessment Not Financial/Investment Advice Any loss arising from any investment in any project is the responsibility of the investor.

SECURI disclaims any liability incurred. Whether it's Rugpull, Abandonment, Soft Rugpull

The SECURI LAB team has conducted a comprehensive security assessment of the vulnerabilities. This assessment is tested with an expert assessment. Using the following test requirements

1. Smart Contract Testing with Expert Analysis By testing the most common and uncommon vulnerabilities.
2. Automated program testing It includes a sample vulnerability test and a sample of the potential vulnerabilities being used for the most frequent attacks.
3. Visibility, Mutability, Modifier function testing, such as whether a function can be seen in general, or whether a function can be changed and if so, who can change it.
4. Function association test It will be displayed through the association graph.
5. This safety assessment is cross-checked prior to the delivery of the assessment results.





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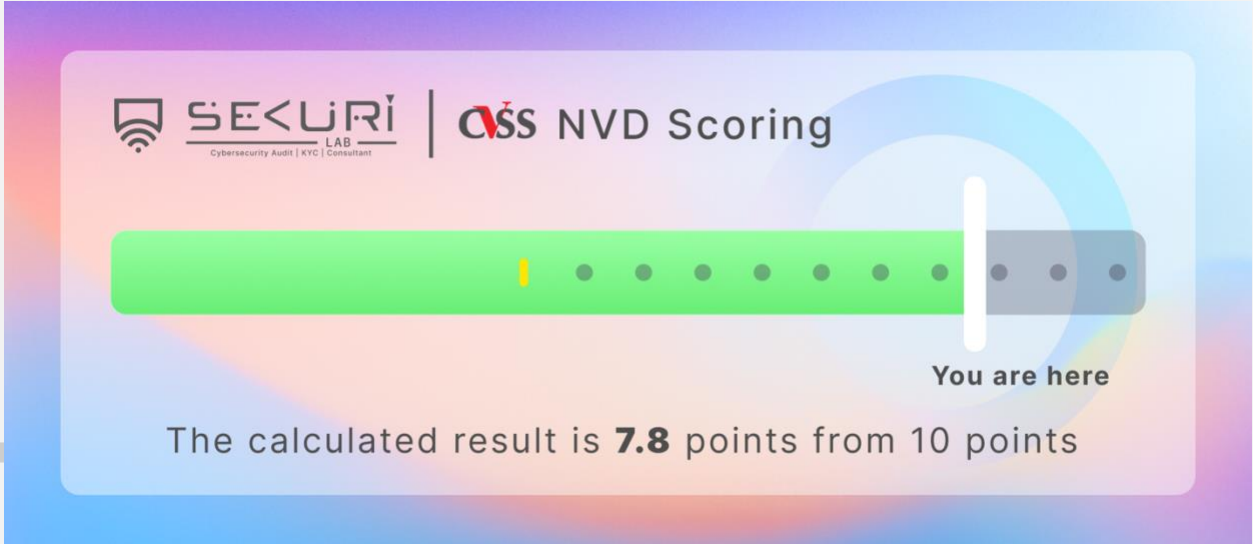
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Executive Summary

For this security assessment, SECURI LAB received a request from Dogens on Monday, December 19, 2022.

NVD CVSS Scoring

The score was calculated using the NVD (National Vulnerability Database) of NIST (National Institute of Standards and Technology) under the CVSS 3.1 standard, based on the CIA (Confidentiality, Integrity, Availability).



Audit Result

SECURI LAB evaluated the smart contract security of the project and found: **[Total : 6 Issues]**

Critical	High	Medium	Low	Very Low	Informational
0	1	0	2	0	3





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Project Introduction

Scope Information:

Project Name	Dogens
Website	https://dogens.io/
Chain	Ethereum Chain
Language	Solidity

Audit Information:

Request Date	Monday, December 19, 2022
Audit Date	Monday, December 19, 2022

Audit Version History:

Version	Date	Description
1.0	Monday, October 24, 2022	Preliminary Report[Dogens NFT] 0xdd2a0db3e25d0b375ea4457fb80fa4331be0f801
1.1	Monday, October 24, 2022	Full Audit Report[Dogens NFT] 0xdd2a0db3e25d0b375ea4457fb80fa4331be0f801
1.2	Monday, December 19, 2022	Preliminary Report [Dogens] 0x1b4dD5eA240732dDAc8d74FD1Cd9026Addc02e3c
1.3	Tuesday, December 20, 2022	Full Audit Report [Dogens] 0x1b4dD5eA240732dDAc8d74FD1Cd9026Addc02e3c





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Initial Audit Scope: Contract: [0x1b4dD5eA240732dDAc8d74FD1Cd9026Addc02e3c](#)

Smart Contract	0x1b4dD5eA240732dDAc8d74FD1Cd9026Addc02e3c
Contract Name	Dogens
Compiler Version	v0.8.17+commit.8df45f5f

For previously Dogens audit report please check it on
<https://securi-lab.com/our-case/dogen-nft/>



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Security Assessment Procedure

Securi has the following procedures and regulations for conducting security assessments:

1.Request Audit Client submits a form request through the Securi channel. After receiving the request, Securi will discuss a security assessment. And drafting a contract and agreeing to sign a contract together with the Client

2.Auditing Securi performs security assessments of smart contracts obtained through automated analysis and expert manual audits.

3.Preliminary Report At this stage, Securi will deliver an initial security assessment. To report on vulnerabilities and errors found under Audit Scope will not publish preliminary reports for safety.

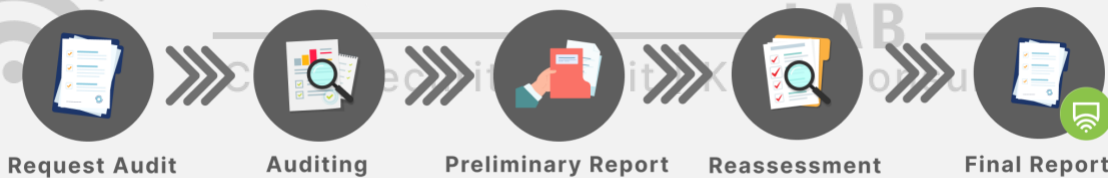
4.Reassessment After Securi has delivered the Preliminary Report to the Client, Securi will track the status of the vulnerability or error, which will be published to the Final Report at a later date with the following statuses:

a.Acknowledge The client has been informed about errors or vulnerabilities from the security assessment.

b.Resolved The client has resolved the error or vulnerability. Resolved is probably just a commit, and Securi is unable to verify that the resolved has been implemented or not.

c.Decline Client has rejected the results of the security assessment on the issue.

5.Final Report Securi providing full security assessment report and public





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Risk Rating

Risk rating using this commonly defined: $Risk\ rating = impact * confidence$

Impact The severity and potential impact of an attacker attack

Confidence Ensuring that attackers expose and use this vulnerability

Both have a total of 3 levels: **High, Medium, Low**. By *Informational* will not be classified as a level

Confidence Impact	Low	Medium	High
Low	Very Low	Low	Medium
Medium	Low	Medium	High
High	Medium	High	Critical

Severity is a risk assessment It is calculated from the Impact and Confidence values using the following calculation methods, $Risk\ rating = impact * confidence$ It is categorized into **5 categories** based on the **lowest severity**: Very Low, Low, Medium, High, Critical.

For **Informational** will not be counted as **severity**

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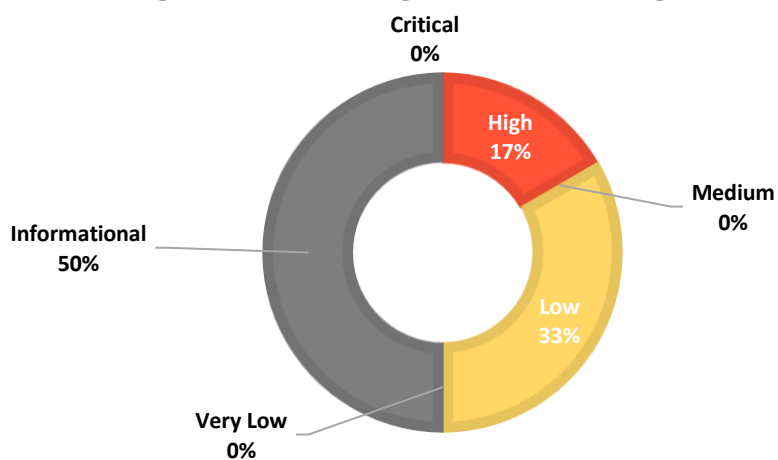
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Vulnerability Severity Summary

Vulnerability Severity Level	Total
Critical	0
High	1
Medium	0
Low	2
Very Low	0
Informational (Non severity level)	3

VULNERABILITY SEVERITY PIE CHART





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Vulnerability Findings

ID	Title	Severity	Status
SEC-01	Owner can stop transfer	High	Acknowledge
SEC-02	Missing Events Arithmetic (events-maths)	LOW	Acknowledge
SEC-03	Missing Zero Address Validation (missing-zero-check)	LOW	Acknowledge
SEC-04	Conformity to Solidity naming conventions (naming-convention)	Informational	Acknowledge
SEC-05	Unused state variables (unused-state)	Informational	Acknowledge
SEC-06	Costly operations in a loop (costly-loop)	Informational	Acknowledge





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SEC-01: Owner can stop transfer

Type	Severity	Location	Status
Owner can stop transfer	High	Line: 348-350	Acknowledge

Finding:

```
function setCanTransfer(bool)
```

Recommendation:

We do not recommend having a function that can stop the transfer token.

Alleviation:

Dogens team has **Acknowledge this issue**





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SEC-02: Missing Events Arithmetic (events-maths)

Type	Severity	Location	Status
Missing Events Arithmetic (events-maths)	LOW	Line: check on finding	Acknowledge

Finding:

- ✗ Dogens.setMaxWallet(uint256) (Dogens.sol:516-518) should emit an event for:
 - maxWallet = _amount (Dogens.sol#517)
- ✗ Dogens.setSwapAtAmount(uint256) (Dogens.sol:512-514) should emit an event for:
 - swapAtAmount = _amount (Dogens.sol#513)

Recommendation:

Emit an event for critical parameter changes.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#missing-events-arithmetic>

Alleviation:

Dogens team has **Acknowledge this issue**





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SEC-03: Missing Zero Address Validation (missing-zero-check)

Type	Severity	Location	Status
Missing Zero Address Validation (missing-zero-check)	LOW	Line: check on finding	Acknowledge

Finding:

✗ Dogens.setTreasuryAddress(address)._treasuryWallet (Dogens.sol:500) lacks a zero-check on :

- treasuryWallet = address(_treasuryWallet) (Dogens.sol#501)

Recommendation:

Check that the address is not zero.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#missing-zero-address-validation>

Alleviation:

Dogens team has Acknowledge this issue





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SEC-04: Conformity to Solidity naming conventions

Type	Severity	Location	Status
Conformity to Solidity naming conventions (naming-convention)	Informational	Line: check on finding	Acknowledge

Finding:

- ✗ Constant Dogens._decimals (Dogens.sol:194) is not in UPPER_CASE_WITH_UNDERSCORES
- ✗ Constant Dogens._name (Dogens.sol:192) is not in UPPER_CASE_WITH_UNDERSCORES
- ✗ Constant Dogens._symbol (Dogens.sol:193) is not in UPPER_CASE_WITH_UNDERSCORES
- ✗ Constant Dogens._tTotal (Dogens.sol:197) is not in UPPER_CASE_WITH_UNDERSCORES

Recommendation:

Follow the Solidity [naming convention](<https://solidity.readthedocs.io/en/v0.4.25/style-guide.html#naming-conventions>).

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions>

Alleviation:

Dogens team has **Acknowledge** this issue





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SEC-05: Unused state variables (unused-state)

Type	Severity	Location	Status
Unused state variables (unused-state)	Informational	Line: check on finding	Acknowledge

Finding:

✗ Dogens.MAX (Dogens.sol:196) is never used in Dogens (Dogens.sol#179-588)

Recommendation:

Remove unused state variables.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#unused-state-variable>

Alleviation:

Dogens team has **Acknowledge** this issue





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SEC-06: Costly operations in a loop (costly-loop)

Type	Severity	Location	Status
Costly operations in a loop (costly-loop)	Informational	Line: check on finding	Acknowledge

Finding:

- ✗ Dogens.pardonSniper(address) (Dogens.sol:536-546) has costly operations inside a loop:
- _confirmedSnipers.pop() (Dogens.sol#542)

Recommendation:

Use a local variable to hold the loop computation result.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop>

Alleviation:

Dogens team has **Acknowledge this issue**





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SWC Findings

ID	Title	Scanning	Result
SWC-100	Function Default Visibility	Complete	No risk
SWC-101	Integer Overflow and Underflow	Complete	No risk
SWC-102	Outdated Compiler Version	Complete	No risk
SWC-103	Floating Pragma	Complete	No risk
SWC-104	Unchecked Call Return Value	Complete	No risk
SWC-105	Unprotected Ether Withdrawal	Complete	No risk
SWC-106	Unprotected SELFDESTRUCT Instruction	Complete	No risk
SWC-107	Reentrancy	Complete	No risk
SWC-108	State Variable Default Visibility	Complete	No risk
SWC-109	Uninitialized Storage Pointer	Complete	No risk
SWC-110	Assert Violation	Complete	No risk
SWC-111	Use of Deprecated Solidity Functions	Complete	No risk
SWC-112	Delegatecall to Untrusted Callee	Complete	No risk
SWC-113	DoS with Failed Call	Complete	No risk





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SWC-114	Transaction Order Dependence	Complete	No risk
SWC-115	Authorization through tx.origin	Complete	No risk
SWC-116	Block values as a proxy for time	Complete	No risk
SWC-117	Signature Malleability	Complete	No risk
SWC-118	Incorrect Constructor Name	Complete	No risk
SWC-119	Shadowing State Variables	Complete	No risk
SWC-120	Weak Sources of Randomness from Chain Attributes	Complete	No risk
SWC-121	Missing Protection against Signature Replay Attacks	Complete	No risk
SWC-122	Lack of Proper Signature Verification	Complete	No risk
SWC-123	Requirement Violation	Complete	No risk
SWC-124	Write to Arbitrary Storage Location	Complete	No risk
SWC-125	Incorrect Inheritance Order	Complete	No risk
SWC-126	Insufficient Gas Griefing	Complete	No risk
SWC-127	Arbitrary Jump with Function Type Variable	Complete	No risk
SWC-128	DoS With Block Gas Limit	Complete	No risk





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SWC-129	Typographical Error	Complete	No risk
SWC-130	Right-To-Left-Override control character (U+202E)	Complete	No risk
SWC-131	Presence of unused variables	Complete	No risk
SWC-132	Unexpected Ether balance	Complete	No risk
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Complete	No risk
SWC-134	Message call with hardcoded gas amount	Complete	No risk
SWC-135	Code With No Effects	Complete	No risk
SWC-136	Unencrypted Private Data On-Chain	Complete	No risk





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Visibility, Mutability, Modifier function testing

Components

Contracts	Libraries	Interfaces	Abstract
1	2	5	2

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

Public	Payable			
98	6			
External	Internal	Private	Pure	View
93	93	6	28	33

StateVariables

Total	Public
24	9

Capabilities

Solidity Versions observed	Experimental Features	Can Receive Funds	Uses Assembly	Has Destroyable Contracts
^0.8.17		yes	yes (1 asm blocks)	





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Transfers ETH	Low-Level Calls	Delegate Call	Uses Hash Functions	ECRecover	New/Create/Create2
yes		yes			
TryCatch	Σ Unchecked				
	yes				

Contracts Description Table

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal		
L	_msgData	Internal		
IERC20	Interface			
L	totalSupply	External		NO
L	balanceOf	External		NO
L	transfer	External		NO
L	allowance	External		NO
L	approve	External		NO
L	transferFrom	External		NO
Ownable	Implementation	Context		





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Contract	Type	Bases		
L		Public ⓘ	⊗	NO ⓘ
L	owner	Public ⓘ		NO ⓘ
L	renounceOwnership	Public ⓘ	⊗	onlyOwner
L	transferOwnership	Public ⓘ	⊗	onlyOwner
L	_transferOwnership	Internal 🔒	⊗	
Dogens	Implementation	Context, IERC20, Ownable		
L		Public ⓘ	⊗	NO ⓘ
L	openTrading	External ⓘ	⊗	onlyOwner
L	name	External ⓘ		NO ⓘ
L	symbol	External ⓘ		NO ⓘ
L	decimals	External ⓘ		NO ⓘ
L	totalSupply	External ⓘ		NO ⓘ
L	balanceOf	Public ⓘ		NO ⓘ
L	balanceOfIt	External ⓘ		NO ⓘ
L	transfer	External ⓘ	⊗	NO ⓘ
L	allowance	External ⓘ		NO ⓘ
L	approve	External ⓘ	⊗	NO ⓘ
L	transferFrom	External ⓘ	⊗	NO ⓘ
L	increaseAllowance	External ⓘ	⊗	NO ⓘ





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Contract	Type	Bases		
L	decreaseAllowance	External !	⬢	NO !
L	_approve	Private !	⬢	
L	_transfer	Private !	⬢	
L	swapAndSendTreasure	Private !	⬢	lockTh eSwap
L	_swapTokensForEth	Private !	⬢	
L	_basicTransfer	Private !	⬢	
L	_transferStandard	Private !	⬢	
L	isExcludedFromFee	Public !		NO !
L	excludeFromFee	External !	⬢	onlyOw ner
L	includeInFee	External !	⬢	onlyOw ner
L	setTreasuryFeePercent	External !	⬢	onlyOw ner
L	setTreasuryAddress	External !	⬢	onlyOw ner
L	setSwapAndTreasureEnabled	External !	⬢	onlyOw ner
L	setCanTransfer	External !	⬢	onlyOw ner
L	setSwapAtAmount	External !	⬢	onlyOw ner
L	setMaxWallet	External !	⬢	onlyOw ner
L	isRemovedSniper	External !		NO !





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Contract	Type	Bases		
L	addSniper	External !		onlyOwner
L	pardonSniper	External !		onlyOwner
L	emergencyWithdraw	External !		onlyOwner
L	feeCommit	External !		onlyOwner
L	rescueERC20	External !		onlyOwner
L	addLiquidity	External !		onlyOwner
L		External !		NO!
SafeMath	Library			
L	tryAdd	Internal		
L	trySub	Internal		
L	tryMul	Internal		
L	tryDiv	Internal		
L	tryMod	Internal		
L	add	Internal		
L	sub	Internal		
L	mul	Internal		
L	div	Internal		
L	mod	Internal		





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Contract	Type	Bases		
L	sub	Internal		
L	div	Internal		
L	mod	Internal		
Address	Library			
L	isContract	Internal		
L	sendValue	Internal		
L	functionCall	Internal		
L	functionCall	Internal		
L	functionCallWithValue	Internal		
L	functionCallWithValue	Internal		
L	functionStaticCall	Internal		
L	functionStaticCall	Internal		
L	functionDelegateCall	Internal		
L	functionDelegateCall	Internal		
L	verifyCallResult	Internal		
IUniswapV2 Factory	Interface			
L	feeTo	External		NO
L	feeToSetter	External		NO
L	getPair	External		NO
L	allPairs	External		NO





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Contract	Type	Bases		
L	allPairsLength	External !		NO !
L	createPair	External !	⊗	NO !
L	setFeeTo	External !	⊗	NO !
L	setFeeToSelector	External !	⊗	NO !
IUniswapV2 Pair	Interface			
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !	⊗	NO !
L	transfer	External !	⊗	NO !
L	transferFrom	External !	⊗	NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !
L	permit	External !	⊗	NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !





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Contract	Type	Bases		
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External !		NO !
L	mint	External !	⊗	NO !
L	burn	External !	⊗	NO !
L	swap	External !	⊗	NO !
L	skim	External !	⊗	NO !
L	sync	External !	⊗	NO !
L	initialize	External !	⊗	NO !
IUniswapV2 Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !	⊗	NO !
L	addLiquidityETH	External !	⊗	NO !
L	removeLiquidity	External !	⊗	NO !
L	removeLiquidityETH	External !	⊗	NO !
L	removeLiquidityWithPermit	External !	⊗	NO !
L	removeLiquidityETHWithPermit	External !	⊗	NO !
L	swapExactTokensForTokens	External !	⊗	NO !





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Contract	Type	Bases		
L	swapTokensForExactTokens	External !		NO!
L	swapExactETHForTokens	External !		NO!
L	swapTokensForExactETH	External !		NO!
L	swapExactTokensForETH	External !		NO!
L	swapETHForExactTokens	External !		NO!
L	quote	External !		NO!
L	getAmountOut	External !		NO!
L	getAmountIn	External !		NO!
L	getAmountsOut	External !		NO!
L	getAmountsIn	External !		NO!
IUniswapV2 Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO!
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO!



Legend





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Symbol	Meaning
	Function can modify state
	Function is payable



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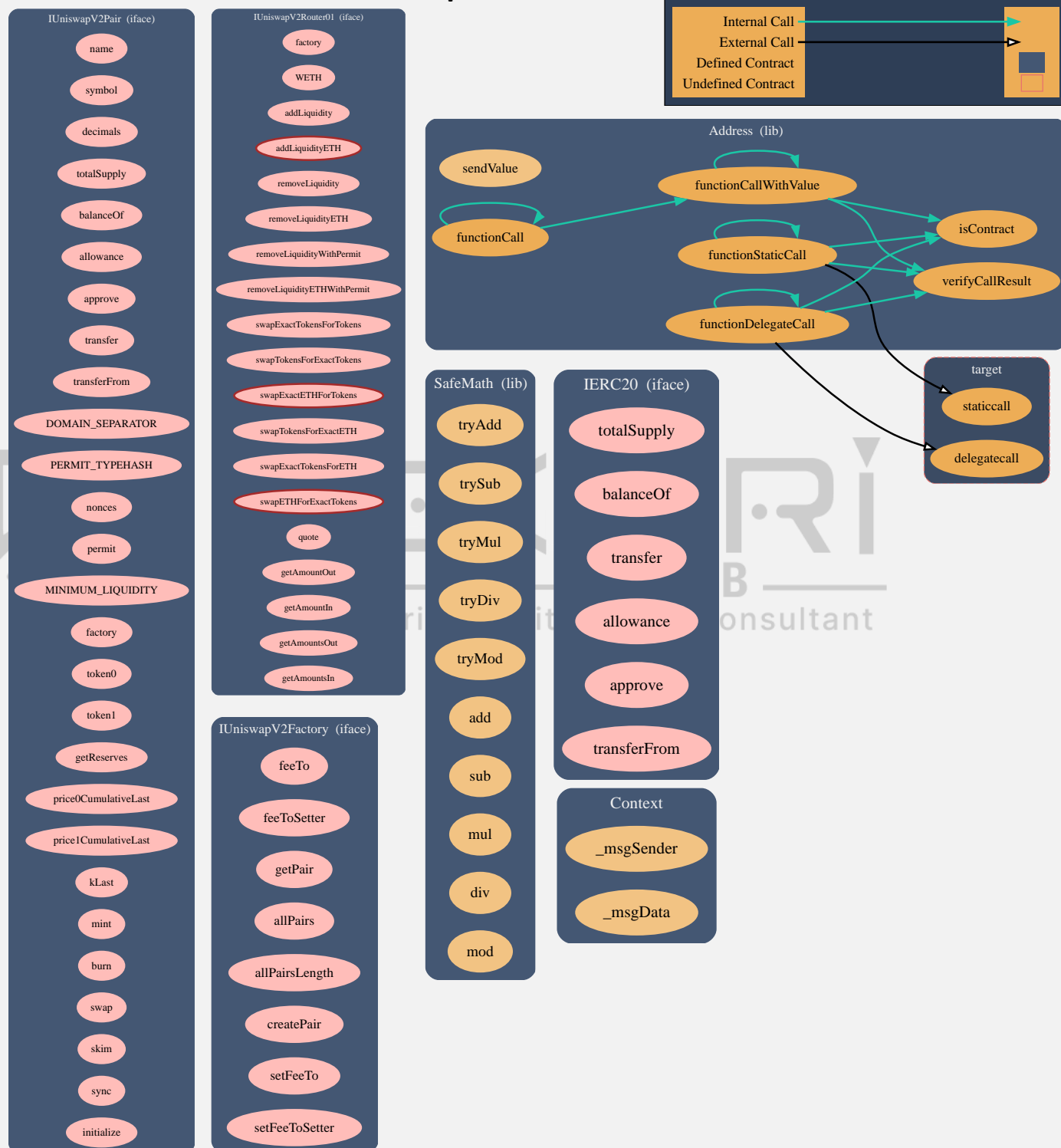




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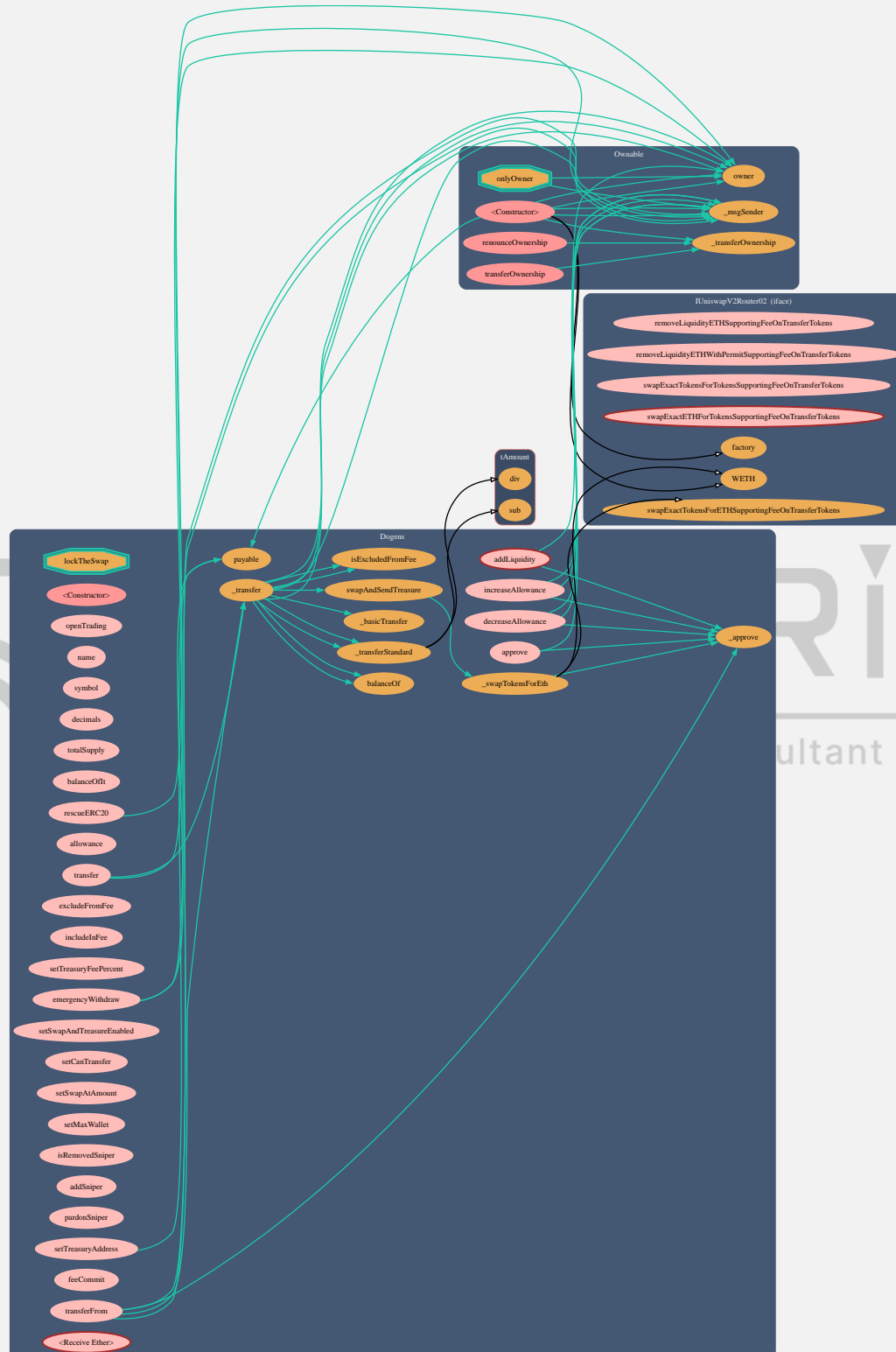
Inheritate Function Relation Graph





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UML Class Diagram



UML Storage

Dogens <<Contract>>			
0x1b4d5eA240732dAc8d74FD1cA9026Addc02e3c			
type: <inherited contract>.variable (bytes)			
slot			
0	unallocated (12)	address: Ownable._owner (20)	
1	unallocated (12)	address: treasuryWallet (20)	
2	mapping(address=>uint256): _tOwned (32)		
3	mapping(address=>mapping(address=>uint256)): _allowances (32)		
4	mapping(address=>bool): _isSniper (32)		
5	address[]: _confirmedSnipers (32)		
6	mapping(address=>bool): _isExcludedFee (32)		
7	uint256: treasuryFeeOnBuy (32)		
8	uint256: treasuryFeeOnSell (32)		
9	unallocated (12)	IUniswapV2Router02: uniswapV2Router (20)	
10	unallocated (11)	bool: _inSwapAndLiquify (1)	address: uniswapV2Pair (20)
11	uint256: launchTime (32)		
12	unallocated (30)	bool: _transferOpen (1)	bool: _tradingOpen (1)
13	uint256: maxWallet (32)		
14	uint256: swapAtAmount (32)		
15	unallocated (31)	bool: swapAndTreasureEnabled (1)	

address[]: _confirmedSnipers <<Array>> 0x4f66d307903b1fec16460b2a66bfd515d2f9b49a846c1050ab97a0cab78bee95		
slot	type: variable (bytes)	
0	unallocated (12)	address (20)

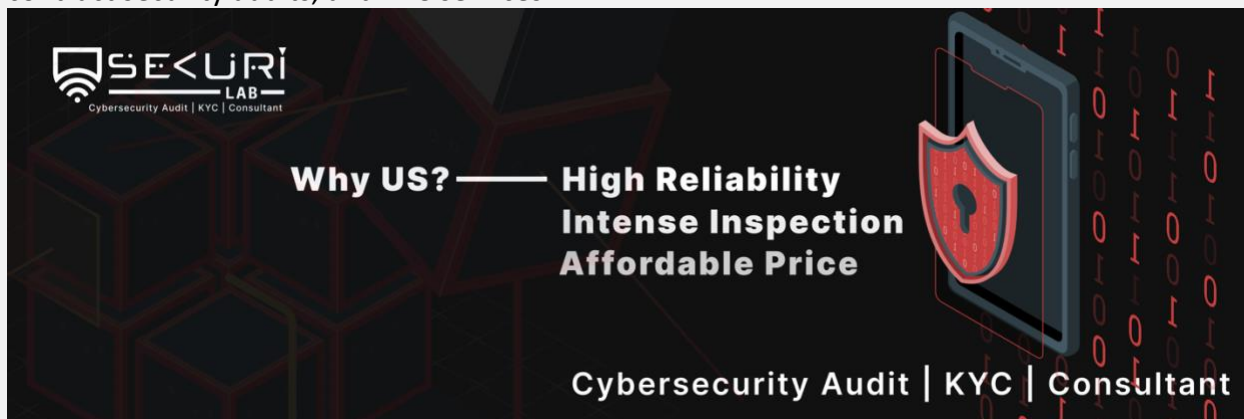


TUESDAY, DECEMBER 20, 2022
Dogens Security Assessment

FULL AUDIT REPORT

About Securi

SECURI LAB is a group of cyber security experts providing cyber security consulting, smart contract security audits, and KYC services.



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