



SEKURI LAB

Cybersecurity Audit | KYC | Consultant



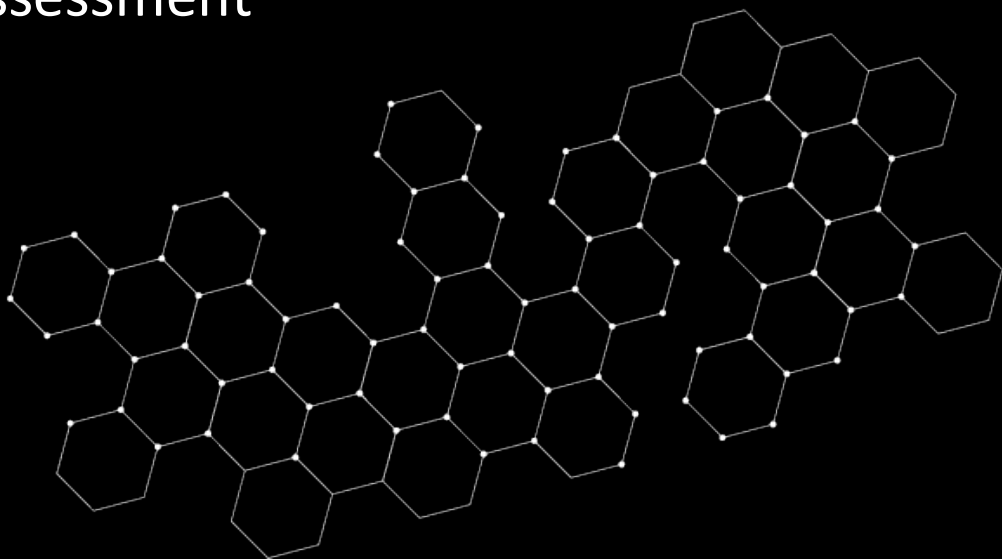
dexo

Full Audit report

DEXO Security Assessment



SECURI contact@securi-lab.com





FULL AUDIT REPORT

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SECURI REPORT TEMPLATE VERSION 1.1



SUNDAY, OCTOBER 9, 2022
DEXO Security Assessment

FULL AUDIT REPORT

Report Information

About Report	DEXO Security Assessment
Version	v1.1
Client	DEXO
Language	Solidity
Confidentiality	Public
Platform	BNB Chain (Previously Binance Smart Chain)
Contract Address	<p>[DEXO Token] 0xFcfC325875C949F049649101082F703000CB205d</p> <p>[DEXO Presale] 0x2E49b43CAD088740ba253b9F4fc11DF0fefA7c33</p> <p>[DEXO Presale New Contract] 0xDEaBa328055A00c3e4a893E381Aed7523c5c2610</p>
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)

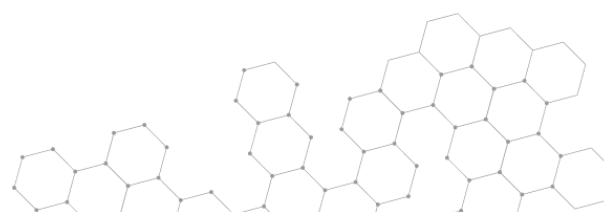
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Disclaimer

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** 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

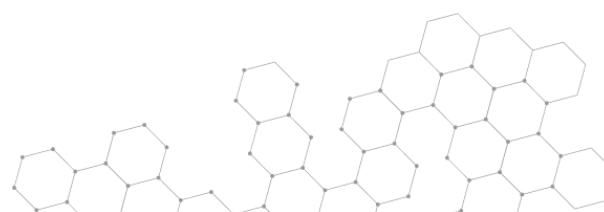
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Executive Summary

For this security assessment, SECURI LAB received a request from DEXO on Wednesday, October 5, 2022.

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.

Audit Result

Securi evaluated the smart contract security of the Example project and found:

[Total : 7 Issues | 6 of 7 issues has already resolved]

Critical	High	Medium	Low	Very Low	Informational
0	2[Resolved]	1[Resolved]	3[Resolved]	0	1



SECURI ✓

SECURI LAB has assessed the security of this smart contract.

The results of the security assessment revealed

No Critical Vulnerabilities.

Full Audit Report by SECURI LAB on Oct 9, 2022

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Project Introduction

Scope Information:

Project Name	DEXO
Website	https://dexo.org/ https://www.dexo.exchange/
Chain	BNB Chain (Previously Binance Smart Chain)
Language	Solidity

Audit Information:

Request Date	Wednesday, October 5, 2022
Audit Date	Thursday, October 6, 2022
Reassessment Date	Sunday, October 9, 2022

Audit Version History:

Version	Date	Description
1.0	Thursday, October 6, 2022	Preliminary Report
1.1	Sunday, October 9, 2022	Full Audit Report

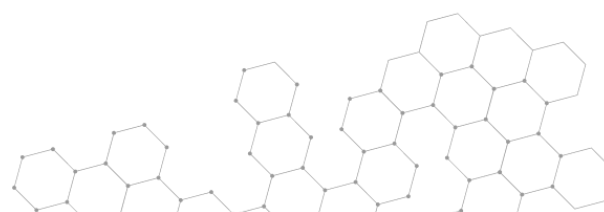
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DEXO Security Assessment

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Initial Audit Scope: Contract: [0xFcfC325875C949F049649101082F703000CB205d](#)

Smart Contract	0xFcfC325875C949F049649101082F703000CB205d
Contract Name	DEXOToken
Compiler Version	v0.8.16+commit.07a7930e

Initial Audit Scope: Contract: [0x2E49b43CAD088740ba253b9F4fc11DF0fefA7c33](#)

Smart Contract	0x2E49b43CAD088740ba253b9F4fc11DF0fefA7c33
Contract Name	presale
Compiler Version	v0.8.15+commit.e14f2714

Reassessment Audit Scope: Contract presale:

[0xDEaBa328055A00c3e4a893E381Aed7523c5c2610](#)

Smart Contract	0xDEaBa328055A00c3e4a893E381Aed7523c5c2610
Contract Name	presale
Compiler Version	v0.8.15+commit.e14f2714

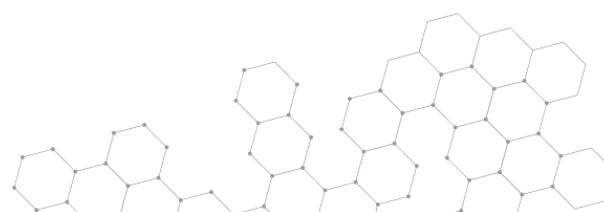
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Security Assessment Procedure

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.

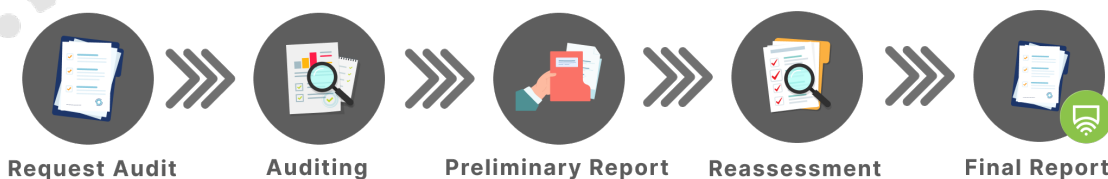
4.Reassessment After Securi has delivered the Preliminary Report to the Client, Securi will track the status of the vulnerability or error, which will be published to the Final Report at a later date with the following statuses:

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**.

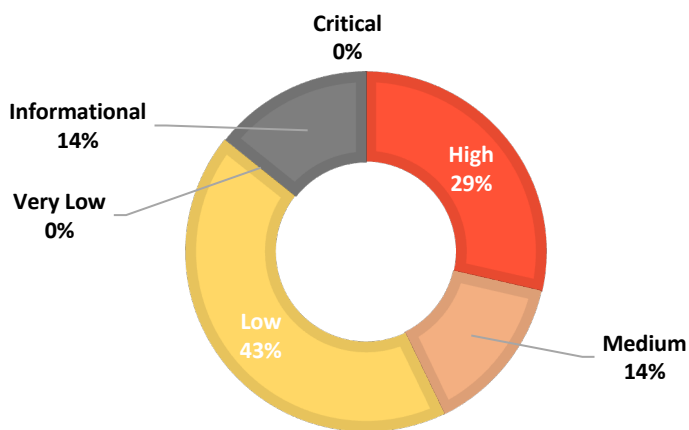
For **Informational** will not be counted as **severity**

FULL AUDIT REPORT

Vulnerability Severity Summary

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

VULNERABILITY SEVERITY PIE CHART



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Vulnerability Findings

ID	Title	Severity	Contract	Status
SEC-01	Wrong token transfer	High	presale	Resolved
SEC-02	Wrong token transfer	High	presale	Resolved
SEC-03	Incorrect ERC20 interfaces	Medium	presale	Resolved
SEC-04	Missing Events Access Control	Low	presale	Resolved
SEC-05	Missing Events Arithmetic	Low	presale	Resolved
SEC-06	Missing Zero Address Validation	Low	presale	Resolved
SEC-07	Code reuse	Informational	presale	Acknowledge

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SEC-01: Wrong token transfer

Type	Severity	Location	Contract	Status
Wrong token transfer	High	Line: 171-172, 195-196	presale	Resolved

Finding:

```
function buyTokenbusd() (line:171-172)  
function buyTokenUSDT() (line:195-196)
```

Description:

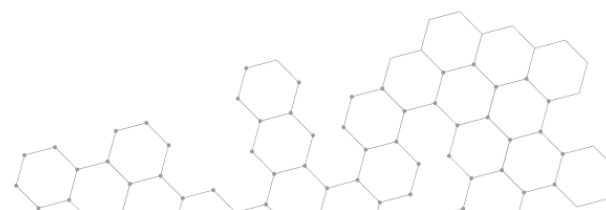
Use openzeppelin safeERC20 to transfer ERC20 token to the contract first before transferring to another address

Recommendation:

```
BUSD.safeTransferFrom(msg.sender, address(this), amount);  
BUSD.safeTransfer(wallet1, amount.mul(35).div(100));  
BUSD.safeTransfer(wallet2, amount.mul(65).div(100));
```

Alleviation:

DEXO Team has already resolved this issue.





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SEC-02: Wrong token transfer

Type	Severity	Location	Contract	Status
Wrong token transfer	High	Line: 218	presale	Resolved

Finding:

function claimToken() (line:218)

Description:

We do not recommend transferring ERC20 token from a private wallet

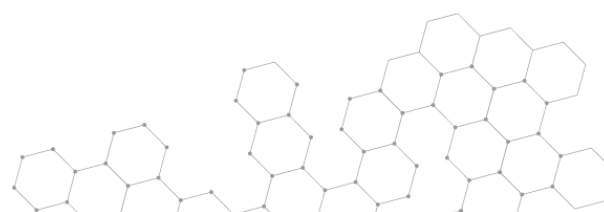
Recommendation:

DEXOToken.safeTransfer(msg.sender, tokenBalance);

The owner should transfer DEXO token to the contract address before starting the presale

Alleviation:

DEXO Team has already resolved this issue.



FULL AUDIT REPORT

SEC-03: Incorrect ERC20 interfaces

Type	Severity	Location	Contract	Status
Incorrect ERC20 interfaces (erc20-interface)	Medium	Line: Check on finding	presale	Resolved

Finding:

✗ IToken (presale.sol:9-41) has incorrect ERC20 function interface:IToken.approve(address,uint256) (presale.sol#25)
✗ IToken (presale.sol:9-41) has incorrect ERC20 function interface:IToken.transfer(address,uint256) (presale.sol#27)
✗ IToken (presale.sol:9-41) has incorrect ERC20 function interface:IToken.transferFrom(address,address,uint256) (presale.sol#29-33)

Recommendation:

Set the appropriate return values and types for the defined `ERC20` functions.

Reference: <https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-erc20-interface>

Alleviation:

DEXO Team has already resolved this issue.

FULL AUDIT REPORT

SEC-04: Missing Events Access Control

Type	Severity	Location	Contract	Status
Missing Events Access Control (events-access)	Low	Line: Check on finding	presale	Resolved

Finding:

- ✗ presale.changeOwner(address) (presale.sol:276-278) should emit an event for:
 - owner = _newOwner (presale.sol#277)
- ✗ presale.changeOwner(address)._newOwner (presale.sol:276) lacks a zero-check on :
 - owner = _newOwner (presale.sol#277)

Recommendation:

Emit an event for critical parameter changes.

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

Alleviation:

DEXO Team has already resolved this issue.

FULL AUDIT REPORT

SEC-05: Missing Events Arithmetic

Type	Severity	Location	Contract	Status
Missing Events Arithmetic (events-maths)	Low	Line: Check on finding	presale	Resolved

Finding:

- ✗ presale.changePrice(uint256) (presale.sol:257-259) should emit an event for:
 - tokenPerUsd = _price (presale.sol#258)
- ✗ presale.setPreSaleTime(uint256) (presale.sol:271-273) should emit an event for:
 - preSaleStartTime = _startTime (presale.sol#272)
- ✗ presale.settotalSupply(uint256,uint256) (presale.sol:262-268) should emit an event for:
 - totalSupply = _totalSupply (presale.sol#266)
 - soldToken = _soldToken (presale.sol#267)

Recommendation:

Emit an event for critical parameter changes.

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

Alleviation:

DEXO Team has already resolved this issue.

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SEC-06: Missing Zero Address Validation

Type	Severity	Location	Contract	Status
Missing Zero Address Validation (missing-zero-check)	Low	Line: Check on finding	presale	Resolved

Finding:

- ✗ presale.changewallets(address,address)._w1 (presale.sol:291) lacks a zero-check on :
 - wallet1 = _w1 (presale.sol#295)
- ✗ presale.changewallets(address,address)._w2 (presale.sol:291) lacks a zero-check on :
 - wallet2 = _w2 (presale.sol#296)

Recommendation:

Check that the address is not zero.

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

Alleviation:

DEXO Team has already resolved this issue.



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SEC-07: Code reuse

Type	Severity	Location	Contract	Status
Code reuse	Informational	Line: Check on finding	presale	Acknowledge

Finding:

```
function usdtToToken() (line:236-239)
```

Recommendation:

busdToToken() and usdtToToken() both functions are the same recommend to remove one of them and renaming to usdToToken

Alleviation:

DEXO Team has already 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

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SWC-113	DoS with Failed Call	Complete	No risk
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

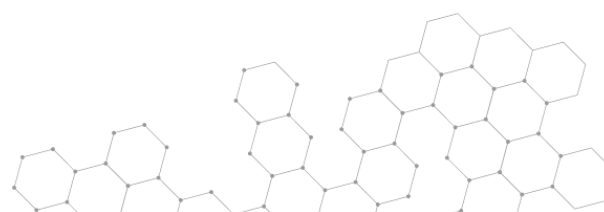
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SWC-127	Arbitrary Jump with Function Type Variable	Complete	No risk
SWC-128	DoS With Block Gas Limit	Complete	No risk
SWC-129	Typographical Error	Complete	No risk
SWC-130	Right-To-Left-Override control character (U+202E)	Complete	No risk
SWC-131	Presence 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

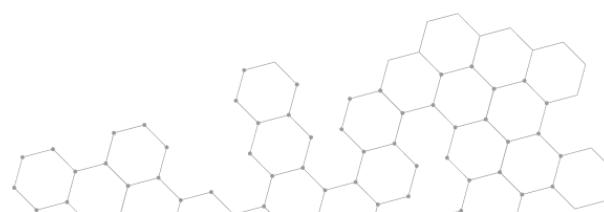
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FULL AUDIT REPORT

Visibility, Mutability, Modifier function testing

Contract: presale

Contract	Type	Bases		
-----: :-----: :-----: :-----: :-----: :-----				
----:				
L	**Function Name**	**Visibility**	**Mutability**	
Modifiers				
IToken	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 !	
AggregatorV3Interface	Interface			
L	decimals	External !	NO !	
L	description	External !	NO !	
L	version	External !	NO !	
L	getRoundData	External !	NO !	
L	latestRoundData	External !	NO !	
presale	Implementation			
L	<Constructor>	Public !	NO !	
L	<Receive Ether>	External !	NO !	
L	getLatestPricebnb	Public !	NO !	
L	buyTokenbnb	Public !	NO !	
L	buyTokenbusd	Public !	NO !	
L	buyTokenUSDT	Public !	NO !	
L	claimToken	Public !	NO !	
L	bnbToToken	Public !	NO !	
L	busdToToken	Public !	NO !	

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```

| L | usdtToToken | Public ! | | NO ! |
| L | getProgress | Public ! | | NO ! |
| L | enableClaim | Public ! | ● | onlyOwner |
| L | changePrice | External ! | ● | onlyOwner |
| L | settotalSupply | External ! | ● | onlyOwner |
| L | setPreSaleTime | External ! | ● | onlyOwner |
| L | changeOwner | External ! | ● | onlyOwner |
| L | changeToken | External ! | ● | onlyOwner |
| L | changeBUSD | External ! | ● | onlyOwner |
| L | changewallets | External ! | ● | onlyOwner |
| L | changeUSDT | External ! | ● | onlyOwner |
| L | transferFundsBNB | External ! | ● | onlyOwner |
| L | transferStuckTokens | External ! | ● | onlyOwner |
| L | getCurrentTime | External ! | | NO ! |
| L | contractBalancebnb | External ! | | NO ! |
| L | contractBalanceBUSD | External ! | | NO ! |
| L | contractBalanceUSDT | External ! | | NO ! |
| L | getContractTokenApproval | External ! | | NO ! |
| | | | |
| **SafeMath** | Library | | |
| L | add | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |

```

Legend

Symbol	Meaning
●	Function can modify state
🔒	Function is payable

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Contract: DEXOToken

Contract	Type	Bases		
-----: :-----: :-----: :-----: :-----: :-----				
----:				
L	**Function Name**	**Visibility**	**Mutability**	
Modifiers				
EIP712 Implementation				
L	<Constructor>	Public	!	NO !
L	_domainSeparatorV4	Internal	🔒	
L	_buildDomainSeparator	Private	🔒	
L	_hashTypedDataV4	Internal	🔒	
ECDSA Library				
L	_throwError	Private	🔒	
L	tryRecover	Internal	🔒	
L	recover	Internal	🔒	
L	tryRecover	Internal	🔒	
L	recover	Internal	🔒	
L	tryRecover	Internal	🔒	
L	recover	Internal	🔒	
L	toEthSignedMessageHash	Internal	🔒	
L	toEthSignedMessageHash	Internal	🔒	
L	toTypedDataHash	Internal	🔒	
Strings Library				
L	toString	Internal	🔒	
L	toHexString	Internal	🔒	
L	toHexString	Internal	🔒	
L	toHexString	Internal	🔒	
Counters Library				
L	current	Internal	🔒	
L	increment	Internal	🔒	🔴
L	decrement	Internal	🔒	🔴
L	reset	Internal	🔒	🔴

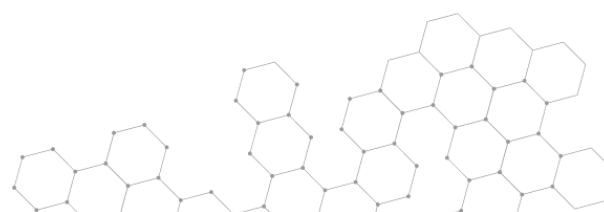
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```

||||| |
| **Context** | Implementation | |||
| L | _msgSender | Internal 🔒 | | |
| L | _msgData | Internal 🔒 | | |
|||||
| **IERC20Permit** | Interface | |||
| L | permit | External ! | 🔴 |NO ! |
| L | nonces | External ! | |NO ! |
| L | DOMAIN_SEPARATOR | External ! | |NO ! |
|||||
| **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 ! |
|||||
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External ! | |NO ! |
| L | symbol | External ! | |NO ! |
| L | decimals | External ! | |NO ! |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| L | <Constructor> | Public ! | 🔴 |NO ! |
| L | name | Public ! | |NO ! |
| L | symbol | Public ! | |NO ! |
| L | decimals | Public ! | |NO ! |
| L | totalSupply | Public ! | |NO ! |
| L | balanceOf | Public ! | |NO ! |
| L | transfer | Public ! | 🔴 |NO ! |
| L | allowance | Public ! | |NO ! |
| L | approve | Public ! | 🔴 |NO ! |
| L | transferFrom | Public ! | 🔴 |NO ! |
| L | increaseAllowance | Public ! | 🔴 |NO ! |
| L | decreaseAllowance | Public ! | 🔴 |NO ! |
| L | _transfer | Internal 🔒 | 🔴 | |
| L | _mint | Internal 🔒 | 🔴 | |

```

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```
| L | _burn | Internal | 🔒 | 🔴 | | |
| L | _approve | Internal | 🔒 | 🔴 | | |
| L | _spendAllowance | Internal | 🔒 | 🔴 | | |
| L | _beforeTokenTransfer | Internal | 🔒 | 🔴 | | |
| L | _afterTokenTransfer | Internal | 🔒 | 🔴 | | |
| | | |
| **ERC20Permit** | Implementation | ERC20, IERC20Permit, EIP712 | | |
| L | <Constructor> | Public | ! | 🔴 | EIP712 |
| L | permit | Public | ! | 🔴 | NO ! |
| L | nonces | Public | ! | 🔴 | NO ! |
| L | DOMAIN_SEPARATOR | External | ! | 🔴 | NO ! |
| L | _useNonce | Internal | 🔒 | 🔴 | | |
| | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | ! | 🔴 | NO ! |
| L | owner | Public | ! | 🔴 | NO ! |
| L | _checkOwner | Internal | 🔒 | 🔴 | | |
| L | renounceOwnership | Public | ! | 🔴 | onlyOwner |
| L | transferOwnership | Public | ! | 🔴 | onlyOwner |
| L | _transferOwnership | Internal | 🔒 | 🔴 | | |
| | | |
| **DEXOToken** | Implementation | ERC20Permit, Ownable | | |
| L | <Constructor> | Public | ! | 🔴 | ERC20 ERC20Permit |
| L | mint | Public | ! | 🔴 | onlyOwner |
| L | transferFrom | Public | ! | 🔴 | NO ! |
| L | transfer | Public | ! | 🔴 | NO ! |
| L | delegates | External | ! | 🔴 | NO ! |
| L | delegate | External | ! | 🔴 | NO ! |
| L | delegateBySig | External | ! | 🔴 | NO ! |
| L | getCurrentVotes | External | ! | 🔴 | NO ! |
| L | getPriorVotes | External | ! | 🔴 | NO ! |
| L | _delegate | Internal | 🔒 | 🔴 | | |
| L | _moveDelegates | Internal | 🔒 | 🔴 | | |
| L | _writeCheckpoint | Internal | 🔒 | 🔴 | | |
| L | safe32 | Internal | 🔒 | 🔴 | | |
| L | getChainId | Internal | 🔒 | 🔴 | | |
```

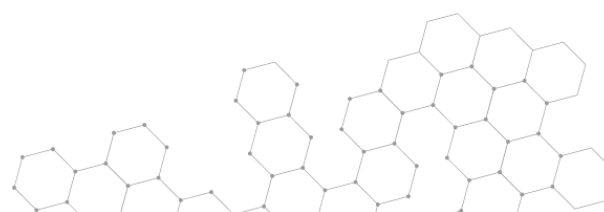
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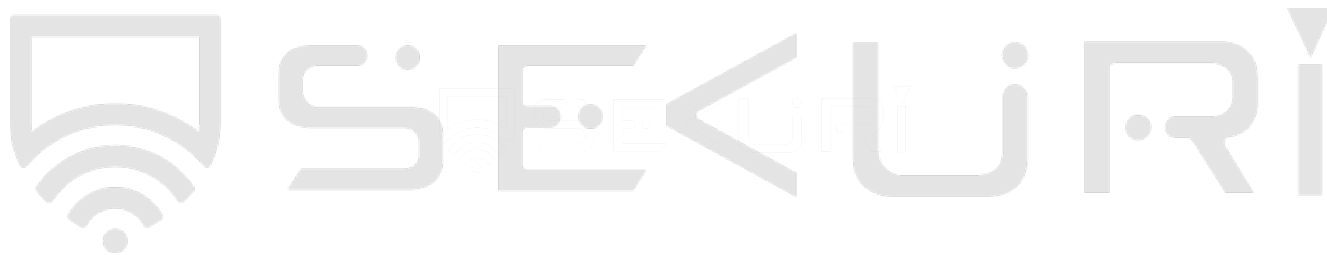
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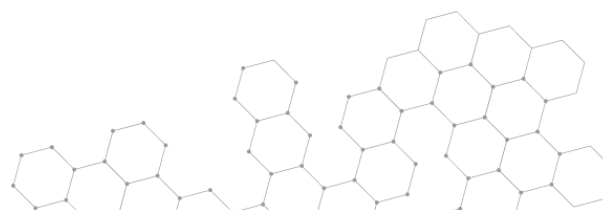
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Legend

Symbol	Meaning
⚙️	Function can modify state
💰	Function is payable

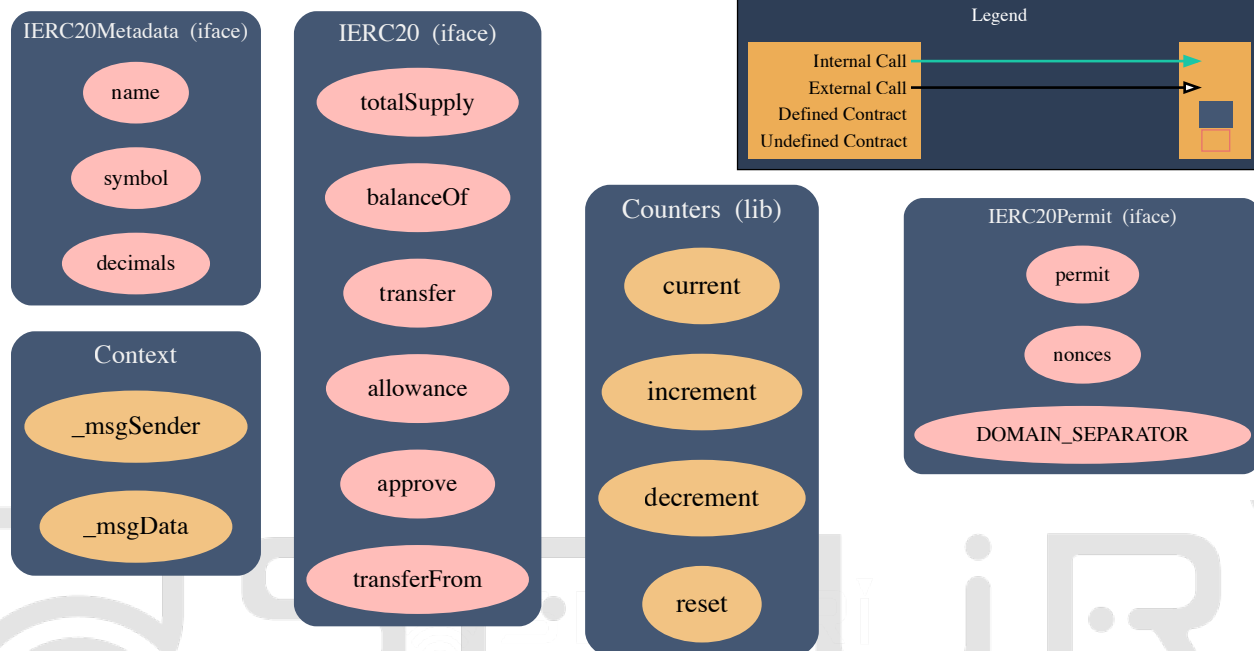
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Contract: DEXOToken



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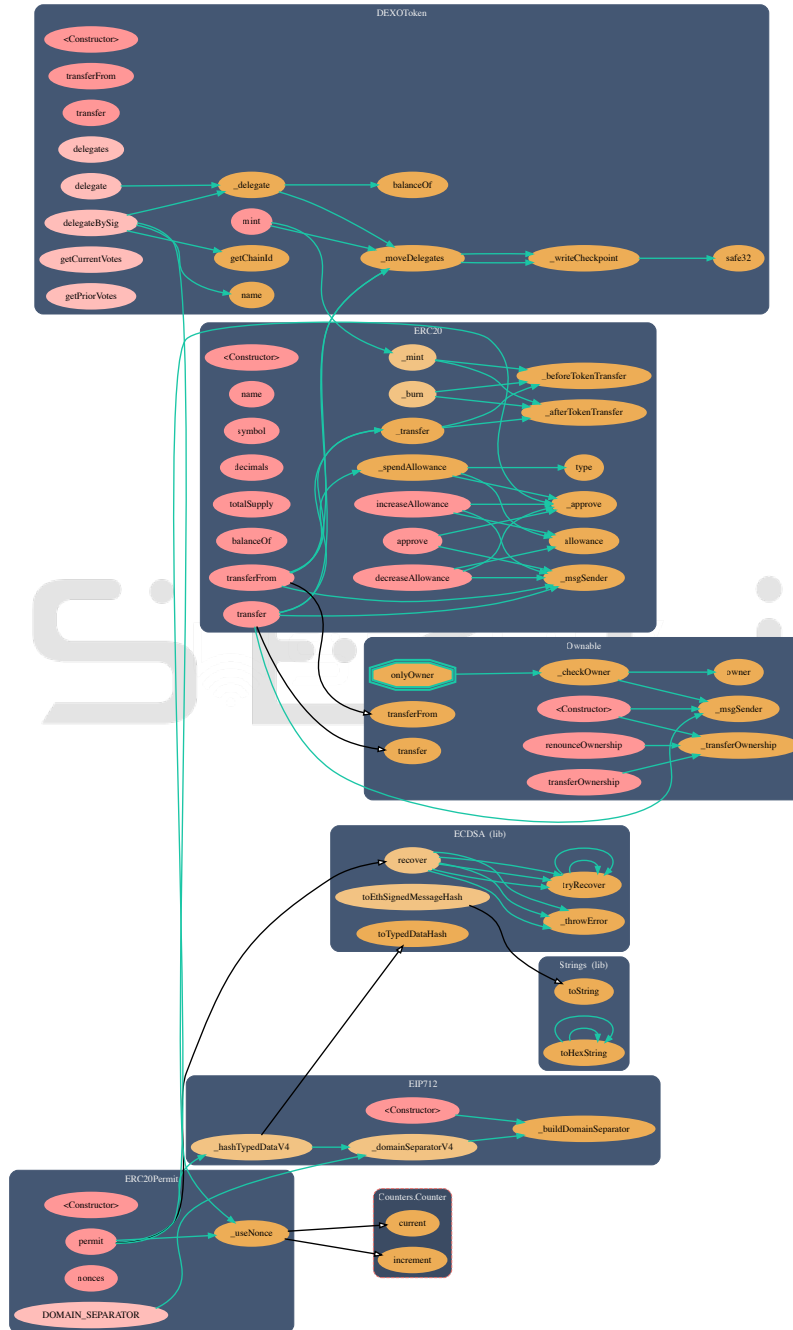
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About Securi

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



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