

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

ORION



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	0	
Medium	0	
Low	1	
Informational	2	

Centralization Risks

Owner Privileges	Description	
Can Owner Set Taxes >25%?	Not Detected	
Owner needs to enable trading?	Not Detected	
Can Owner Disable Trades ?	Not Detected	
Can Owner Mint ?	Not Detected	
Can Owner Blacklist ?	Not Detected	
Can Owner set Max Wallet amount ?	Not Detected	
Can Owner Set Max TX amount ?	Not Detected	



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OVERVIEW

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

Audit Result	Passed
KYC Verification	_
Audit Date	27 March 2024



CONTRACT DETAILS

Token Address: 0x1d3032FBeaF715232c8A02f3453a94E92AFb95C1

Name: ORION

Symbol: ORI

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner: 0x6AfB3cC3EB10E4ABcd45c659Bb2b6a91A3A4d450

Deployer: 0x6AfB3cC3EB10E4ABcd45c659Bb2b6a91A3A4d450

Token Supply: 100,000,000,000

Checksum: A9032c616934aeb47e6039f76b20d2e4

Testnet:

https://testnet.bscscan.com/address/0xc0a98a6495b78d1bc4d9

aala68e134994514f899#code



AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat



VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Issues on this level are minor details and warning that can remain unfixed.



INHERITANCE TREE





STATIC ANALYSIS

```
SMYTONEN, getAccountDividendsInfoCaddress) (&ABYTONEN, sol82207-3220) ignores return value by dividendTracker_getAccountCaccount) (&ABYTONEN, sol82220) aBAYTONEN, getAccountOividendsInfoAtIndex(uint256) (&ABYTONEN, sol8226-3243) ignores return value by dividendTracker_getAccountAtIndex(index) (&ABYTONEN, sol8226-3243) ignores return value by dividendTracker_getAccountAtIndex(index) (&ABYTONEN, sol8226-3243) ignores return value by dividendTracker_getAccountCaddress(seg.sender), false) (&ABYTONEN, sol8226-3243) ignores return value by unissapV2Router_addiquidityETH(value: ethAsount)(address(seg.sender), false) (&ABYTONEN, sol82262) ignores return value by unissapV2Router_addiquidityETH(value: ethAsount)(address(this), to Marting the sole of the sole of
```



TESTNET VERSION

1- Approve (passed):

https://testnet.bscscan.com/tx/0x200c319786bd933d1d04dee 133e73096233733304fb711643681852d76edef1c

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x0f1e5e1b4100dc38cb1b7af28 9caa51b706bd934e6cae14142e2646f9180bf77

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x08730198241286b7db628711 4f2f219c0e3bc960ba8d43b07cbf6ad887a3cf52

4- Exclude From Dividends (passed):

https://testnet.bscscan.com/tx/0xb8cd20ee06cc9b62f2edcd373f4d6c98270146965fe92a3ae80a42eb1069ac50

5- Exclude From Fees (passed):

https://testnet.bscscan.com/tx/0x72d517694cad5e74ca90520 c556ce7a5b121ed128c7b42f27449f8c52e63bba8

6- Transfer Ownership (passed):

https://testnet.bscscan.com/tx/0x9308c1e0cdb6616b77a1ca88 be93fc1dce3cf40e0785110b7e27d3f76df58009



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



LOW RISK FINDING

Centralization – Missing Events

Severity: Low

subject: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function setSwapTokensAtAmount(uint256 amount) external
onlyOwner {
require(
  amount > totalSupply() / 10 ** 5,
"BABYTOKEN: Amount must be greater than 0.001% of total supply"
 );
 swapTokensAtAmount = amount;
function setMarketingWallet(address payable wallet) external
onlyOwner {
require(
  wallet != address(0),
"BABYTOKEN: The marketing wallet cannot be the value of zero"
 );
require(!wallet.isContract(), "Marketing wallet cannot be a
contract");
 _marketingWalletAddress = wallet;
function setTokenRewardsFee(uint256 value) external onlyOwner {
 tokenRewardsFee = value:
```



LOW RISK FINDING

```
totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
require(totalFees <= 25, "Total fee is over 25%");
}
function setLiquiditFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees =
    tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}
function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees =
    tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}</pre>
```

Suggestion:

Emit an event for critical changes.



Optimization

Severity: Optimization

subject: Remove unused code.

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice. though to avoid them

```
function _msgData() internal view virtual returns (bytes calldata) {
return msg.data;
function _burn(address account, uint256 amount) internal virtual {
require(account != address(0), "ERC20: burn from the zero address");
 _beforeTokenTransfer(account, address(0), amount);
uint256 accountBalance = _balances[account];
require(accountBalance >= amount, "ERC20: burn amount exceeds
balance");
 unchecked {
  _balances[account] = accountBalance - amount;
 _totalSupply -= amount;
emit Transfer(account, address(0), amount);
  afterTokenTransfer(account, address(0), amount);
```



```
function sendValue(address payable recipient, uint256 amount)
internal {
require(address(this).balance >= amount, "Address: insufficient
balance");
 (bool success, ) = recipient.call{value: amount}("");
require(success, "Address: unable to send value, recipient may have
reverted"):
function functionCall(address target, bytes memory data) internal
returns (bytes memory) {
return functionCall(target, data, "Address: low-level call failed");
function functionCallWithValue(
address target,
bytes memory data,
uint256 value
) internal returns (bytes memory) {
return functionCallWithValue(target, data, value, "Address: low-level
call with value failed");
function functionStaticCall(address target, bytes memory data)
internal view returns (bytes memory) {
return functionStaticCall(target, data, "Address: low-level static call
failed");
function functionDelegateCall(address target, bytes memory data)
internal returns (bytes memory) {
return functionDelegateCall(target, data, "Address: low-level
delegate call failed");
```



```
function safeTransferFrom(
 IERC20 token.
address from.
address to.
uint256 value
) internal {
 _callOptionalReturn(token,
abi.encodeWithSelector(token.transferFrom.selector, from, to,
value));
function safeApprove(
 IERC20 token,
address spender,
uint256 value
) internal {
// safeApprove should only be called when setting an initial
allowance.
// or when resetting it to zero. To increase and decrease it, use
// 'safeIncreaseAllowance' and 'safeDecreaseAllowance'
require(
  (value == 0) || (token.allowance(address(this), spender) == 0),
"SafeERC20: approve from non-zero to non-zero allowance"
 );
 _callOptionalReturn(token,
abi.encodeWithSelector(token.approve.selector, spender, value));
function safeIncreaseAllowance(
 IERC20 token,
address spender,
uint256 value
) internal {
```



```
unchecked {
uint256 oldAllowance = token.allowance(address(this), spender);
require(oldAllowance >= value, "SafeERC20: decreased allowance
below zero");
uint256 newAllowance = oldAllowance - value;
    _callOptionalReturn(token,
abi.encodeWithSelector(token.approve.selector, spender,
newAllowance));
}
```



Optimization

Severity: Informational

Subject: Remove Safe Math

Status: Open

Line: 913-1124

Overview:

compiler version above 0.8.0 can control arithmetic overflow/underflow, it is recommended to remove the unwanted code to avoid high gas fees.



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up.
Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

www.expelee.com

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