

Audit Report Al Minion

April 2023

Network BSC

Address 0x3b2e7cf9c203aa52f38a8116873f1e323d2a7c8b

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Review

Contract Name	AIMINION
Compiler Version	v0.8.18+commit.87f61d96
Optimization	200 runs
Explorer	https://testnet.bscscan.com/address/0x3b2e7cf9c203aa52f38a 8116873f1e323d2a7c8b
Address	0x3b2e7cf9c203aa52f38a8116873f1e323d2a7c8b
Network	BSC_TESTNET
Symbol	AIM
Decimals	9
Total Supply	25,000,000,000

Audit Updates

Initial Audit	10 Apr 2023
Corrected Phase 2	13 Apr 2023

Source Files

Filename	SHA256
AIMINION.sol	e4c64f9dfcefe7ea681d6f2dc9e946ad50c496a27db913aeca9e4befde10 fde2



Findings Breakdown



Sev	verity	Unresolved	Acknowledged	Resolved	Other
•	Critical	1	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	15	0	0	0



Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Unresolved
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	BT	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



ST - Stops Transactions

Criticality	Minor / Informative
Location	AIMINION.sol#L1002
Status	Unresolved

Description

The contract owner has the authority to stop the sales for all users excluding the owner. The owner may take advantage of it by setting the gasPriceLimit to zero.

```
if (gasLimitActive) {
    require(tx.gasprice <= gasPriceLimit, "Gas price exceeds limit.");
}</pre>
```

Recommendation

The contract could embody a check for not allowing setting the gasPriceLimit less than a reasonable amount. The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. Some suggestions are:

- Introduce a time-locker mechanism with a reasonable delay.
- Introduce a multi-sign wallet so that many addresses will confirm the action.
- Introduce a governance model where users will vote about the actions.
- Renouncing the ownership will eliminate the threats but it is non-reversible.



Diagnostics

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	CLF	Contract Locked Funds	Unresolved
•	PTRP	Potential Transfer Revert Propagation	Unresolved
•	RC	Redundant Check	Unresolved
•	RDM	Revert Descriptive Message	Unresolved
•	RA	Redundant Allowance	Unresolved
•	IDI	Immutable Declaration Improvement	Unresolved
•	L02	State Variables could be Declared Constant	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L05	Unused State Variable	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L09	Dead Code Elimination	Unresolved
•	L11	Unnecessary Boolean equality	Unresolved
•	L13	Divide before Multiply Operation	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



L17 Usage of Solidity Assembly

Unresolved



CLF - Contract Locked Funds

Criticality	Critical
Location	AIMINION.sol#L1047
Status	Unresolved

Description

The swapAndLiquify function does not swap the whole contractTokenBalance. A portion of the contractTokenBalance remains at the contract. The contract does not implement any function to retrieve these funds. As a result, the remaining tokens will stay locked in the contract.

function swapAndLiquify(uint256 contractTokenBalance) private lockTheSwap
{}

Recommendation

The team is advised to take these segments into consideration and rewrite them to avoid locking funds at the contract. A recommendation would be to fork the swapAndLiquify
function from well-known contracts.



PTRP - Potential Transfer Revert Propagation

Criticality	Minor / Informative
Location	AIMINION.sol#L1073,1074
Status	Unresolved

Description

The contract sends funds to a marketingWallet and a charityWallet as part of the transfer flow. These addresses can either be a wallet address or a contract. If the address belongs to a contract then it may revert from incoming payment. As a result, the error will propagate to the token's contract and revert the transfer.

```
_marketingWallet.transfer(amountMarketingBNB);
_charityWallet.transfer(amountCharityBNB);
```

Recommendation

The contract should tolerate the potential revert from the underlying contracts when the interaction is part of the main transfer flow. This could be achieved by not allowing set contract addresses or by sending the funds in a non-revertable way.



RC - Redundant Check

Criticality	Minor / Informative
Location	AIMINION.sol#L824,842,860
Status	Unresolved

Description

There are code segments that could be optimized. A segment may be optimized so that it becomes a smaller size, consumes less memory, executes more rapidly, or performs fewer operations.

The contract functions setBuyTaxes, setSellTaxes, and setTransferTaxes require that each fee is less than or equal to a maximum value, and their sum is less than 5000. The sum of the maximum values of each fee is equal to 2000, so even if each fee is given the maximum acceptable value, the sum of all fees will always be less than 5000. As a result, the second require statement is redundant.

```
require(reflectFee <= maxReflectFee
    && marketingFee <= maxMarketingFee
    && charityFee <= maxCharityFee
    && burnFee <= maxBurnFee);
require(reflectFee + marketingFee + charityFee + burnFee <= 5000);</pre>
```

Recommendation

The team is advised to take these segments into consideration and rewrite them so the runtime will be more performant. That way it will improve the efficiency and performance of the source code and reduce the cost of executing it.



RDM - Revert Descriptive Message

Criticality	Minor / Informative
Location	AIMINION.sol#L820,824,838,842,856,860,1008,1011
Status	Unresolved

Description

The require() function is used to halt the execution of a contract, if a certain condition is not met, and revert any changes made to the contract's state. The contract does not provide a descriptive message to the require() function.

```
require(reflectFee <= maxReflectFee
    && marketingFee <= maxMarketingFee
    && charityFee <= maxCharityFee
    && burnFee <= maxBurnFee);
require( reflectFee + marketingFee+ charityFee + burnFee <= 5000);
require(lastTrade[to] != block.number);</pre>
```

Recommendation

The team is suggested to provide a descriptive message to the require() function. This message can be used to provide additional context about the error that occurred or to explain why the contract execution was halted. This can be useful for debugging and for providing more information to users that interact with the contract.



RA - Redundant Allowance

Criticality	Minor / Informative
Location	AIMINION.sol#L714
Status	Unresolved

Description

The transferowner function transfers the ownership of the contract to a new owner. The previous owner's balance is transferred to the new owner. Additionally, the function grants an allowance equal to the owner's balance for the new owner. Since all the balance of the owner is transferred, setting a new allowance between the two addresses is redundant.

```
_allowances[_owner][newOwner] = balanceOf(_owner);
if(balanceOf(_owner) > 0) {
    __transfer(_owner, newOwner, balanceOf(_owner));
}
```

Recommendation

The team is advised to remove the code segment where the allowance is being set.



IDI - Immutable Declaration Improvement

Criticality	Minor / Informative
Location	AIMINION.sol#L666
Status	Unresolved

Description

The contract is using variables that initialize them only in the constructor. The other functions are not mutating the variables. These variables are not defined as <code>immutable</code>.

lpPairObj

Recommendation

By declaring a variable as immutable, the Solidity compiler is able to make certain optimizations. This can reduce the amount of storage and computation required by the contract, and make it more gas-efficient.



L02 - State Variables could be Declared Constant

Criticality	Minor / Informative
Location	AIMINION.sol#L537,540,546,547,569,570,571,572,574,586,588,591,597, 598,603,604,613,616,619,621,623
Status	Unresolved

Description

State variables can be declared as constant using the constant keyword. This means that the value of the state variable cannot be changed after it has been set. Additionally, the constant variables decrease gas consumption of the corresponding transaction.

```
uint256 private startingSupply = 25_000_000_000_000
uint8 private _decimals = 9
string private _name = "AI Minion"
string private symbol = "AIM"
uint256 private maxReflectFee = 800
uint256 private maxMarketingFee = 600
uint256 private maxCharityFee = 300
uint256 private maxBurnFee = 300
uint256 private masterTaxDivisor = 10000
address private _routerAddress =
0xD99D1c33F9fC3444f8101754aBC46c52416550D1
address payable private _charityWallet =
payable(0xB1C0CF66a8506302A7aBa1640A3a9A249E697372)
uint256 private maxTxPercent = 5
uint256 private maxTxDivisor = 100
```



Recommendation

Constant state variables can be useful when the contract wants to ensure that the value of a state variable cannot be changed by any function in the contract. This can be useful for storing values that are important to the contract's behavior, such as the contract's address or the maximum number of times a certain function can be called. The team is advised to add the constant keyword to state variables that never change.



L04 - Conformance to Solidity Naming Conventions

Criticality	Minor / Informative
Location	AIMINION.sol#L351,352,366,384,549,550,551,552,554,555,556,557,559, 560,561,562,564,565,566,567,611,868,895
Status	Unresolved

Description

The Solidity style guide is a set of guidelines for writing clean and consistent Solidity code. Adhering to a style guide can help improve the readability and maintainability of the Solidity code, making it easier for others to understand and work with.

The followings are a few key points from the Solidity style guide:

- 1. Use camelCase for function and variable names, with the first letter in lowercase (e.g., myVariable, updateCounter).
- 2. Use PascalCase for contract, struct, and enum names, with the first letter in uppercase (e.g., MyContract, UserStruct, ErrorEnum).
- 3. Use uppercase for constant variables and enums (e.g., MAX_VALUE, ERROR_CODE).
- 4. Use indentation to improve readability and structure.
- 5. Use spaces between operators and after commas.
- 6. Use comments to explain the purpose and behavior of the code.
- 7. Keep lines short (around 120 characters) to improve readability.



```
function DOMAIN_SEPARATOR() external view returns (bytes32);
function PERMIT_TYPEHASH() external pure returns (bytes32);
function MINIMUM_LIQUIDITY() external pure returns (uint);
function WETH() external pure returns (address);
uint256 public _reflectFee = 0
uint256 public _marketingFee = 0
uint256 public _charityFee = 0
uint256 public _burnFee = 0
uint256 public _buyReflectFee = 100
uint256 public _buyCharityFee = 100
uint256 public _buyBurnFee = 100
uint256 public _sellReflectFee = _buyReflectFee
uint256 public _sellMarketingFee = _buyMarketingFee
```

Recommendation

By following the Solidity naming convention guidelines, the codebase increased the readability, maintainability, and makes it easier to work with.

Find more information on the Solidity documentation

https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-convention.



L05 - Unused State Variable

Criticality	Minor / Informative
Location	AIMINION.sol#L576,577,578,579,600,606,613,621
Status	Unresolved

Description

An unused state variable is a state variable that is declared in the contract, but is never used in any of the contract's functions. This can happen if the state variable was originally intended to be used, but was later removed or never used.

Unused state variables can create clutter in the contract and make it more difficult to understand and maintain. They can also increase the size of the contract and the cost of deploying and interacting with it.

```
uint256 private _previousReflectFee = _reflectFee
uint256 private _previousMarketingFee = _marketingFee
uint256 private _previousCharityFee = _charityFee
uint256 private _previousBurnFee = _burnFee
uint256 private _previousMaxTxAmount = _maxTxAmount
uint256 private _previousMaxWalletSize = _maxWalletSize
uint256 private _liqAddBlock = 0
address private lastSell
```

Recommendation

To avoid creating unused state variables, it's important to carefully consider the state variables that are needed for the contract's functionality, and to remove any that are no longer needed. This can help improve the clarity and efficiency of the contract.



L07 - Missing Events Arithmetic

Criticality	Minor / Informative
Location	AIMINION.sol#L810,826,844,862,869,873,879,886
Status	Unresolved

Description

Events are a way to record and log information about changes or actions that occur within a contract. They are often used to notify external parties or clients about events that have occurred within the contract, such as the transfer of tokens or the completion of a task.

It's important to carefully design and implement the events in a contract, and to ensure that all required events are included. It's also a good idea to test the contract to ensure that all events are being properly triggered and logged.

```
_liqAddStatus = rInitializer
_buyReflectFee = reflectFee
_sellReflectFee = reflectFee
_transferReflectFee = reflectFee
gasPriceLimit = _gas * 1 gwei
numTokensSellToAddToLiquidity = nnumber
_maxTxAmount = check
_maxWalletSize = check
```

Recommendation

By including all required events in the contract and thoroughly testing the contract's functionality, the contract ensures that it performs as intended and does not have any missing events that could cause issues with its arithmetic.



L09 - Dead Code Elimination

Criticality	Minor / Informative
Location	AIMINION.sol#L265,276,284,288,293,297,302,1095
Status	Unresolved

Description

In Solidity, dead code is code that is written in the contract, but is never executed or reached during normal contract execution. Dead code can occur for a variety of reasons, such as:

- Conditional statements that are always false.
- Functions that are never called.
- Unreachable code (e.g., code that follows a return statement).

Dead code can make a contract more difficult to understand and maintain, and can also increase the size of the contract and the cost of deploying and interacting with it.



Recommendation

To avoid creating dead code, it's important to carefully consider the logic and flow of the contract and to remove any code that is not needed or that is never executed. This can help improve the clarity and efficiency of the contract.

L11 - Unnecessary Boolean equality

Criticality	Minor / Informative
Location	AIMINION.sol#L784,901,908
Status	Unresolved

Description

Boolean equality is unnecessary when comparing two boolean values. This is because a boolean value is either true or false, and there is no need to compare two values that are already known to be either true or false.

it's important to be aware of the types of variables and expressions that are being used in the contract's code, as this can affect the contract's behavior and performance. The comparison to boolean constants is redundant. Boolean constants can be used directly and do not need to be compared to true or false.

```
enabled == false
enabled == true
```

Recommendation

Using the boolean value itself is clearer and more concise, and it is generally considered good practice to avoid unnecessary boolean equalities in Solidity code.



L13 - Divide before Multiply Operation

Criticality	Minor / Informative
Location	AIMINION.sol#L1054,1062
Status	Unresolved

Description

It is important to be aware of the order of operations when performing arithmetic calculations. This is especially important when working with large numbers, as the order of operations can affect the final result of the calculation. Performing divisions before multiplications may cause loss of prediction.

```
uint256 half = toLiquify / 2
uint256 liquidityBalance = (fromSwap * half) / toSwapForEth
```

Recommendation

To avoid this issue, it is recommended to carefully consider the order of operations when performing arithmetic calculations in Solidity. It's generally a good idea to use parentheses to specify the order of operations. The basic rule is that the multiplications should be prior to the divisions.

L14 - Uninitialized Variables in Local Scope

Criticality	Minor / Informative
Location	AIMINION.sol#L1147
Status	Unresolved

Description

Using an uninitialized local variable can lead to unpredictable behavior and potentially cause errors in the contract. It's important to always initialize local variables with appropriate values before using them.

ExtraValues memory values

Recommendation

By initializing local variables before using them, the contract ensures that the functions behave as expected and avoid potential issues.



L17 - Usage of Solidity Assembly

Criticality	Minor / Informative
Location	AIMINION.sol#L272,315
Status	Unresolved

Description

Using assembly can be useful for optimizing code, but it can also be error-prone. It's important to carefully test and debug assembly code to ensure that it is correct and does not contain any errors.

Some common types of errors that can occur when using assembly in Solidity include Syntax, Type, Out-of-bounds, Stack, and Revert.

Recommendation

It is recommended to use assembly sparingly and only when necessary, as it can be difficult to read and understand compared to Solidity code.

Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		



	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	1	
	functionCallWithValue	Internal	1	
	functionCallWithValue	Internal	1	
	_functionCallWithValue	Private	1	
IUniswapV2Fac tory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-



	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-



	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Rou ter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-



	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Rou ter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOnTr ansferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporting FeeOnTransferTokens	External	1	-
	swapExactETHForTokensSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
AIMINION	Implementation	Context, IERC20		
		Public	Payable	-
		External	Payable	-
	owner	Public		-
	transferOwner	External	✓	onlyOwner
	renounceOwnership	Public	✓	onlyOwner
	totalSupply	External		-



decimals	External		-
symbol	External		-
name	External		-
getOwner	External		-
allowance	External		-
balanceOf	Public		-
transfer	Public	1	-
approve	Public	✓	-
transferFrom	Public	✓	-
increaseAllowance	Public	✓	-
decreaseAllowance	Public	✓	-
setNewRouter	Public	✓	onlyOwner
setLpPair	External	✓	onlyOwner
isExcludedFromReward	Public		-
isExcludedFromFee	Public		-
isTransferTaxExcluded	Public		-
isProtected	External	✓	onlyOwner
setBuyTaxes	External	✓	onlyOwner
setSellTaxes	External	✓	onlyOwner
setTransferTaxes	External	✓	onlyOwner
setStartingProtections	External	✓	onlyOwner
setnumoftoken	External	✓	onlyOwner
setMaxTxPercent	External	✓	onlyOwner



setMaxWalletSize	External	✓	onlyOwner
setMarketingWallet	External	1	onlyOwner
setSwapAndLiquifyEnabled	External	1	onlyOwner
setExcludedFromReward	Public	✓	onlyOwner
setExcludedFromFee	Public	1	onlyOwner
setExcludedFromTransferTax	External	✓	onlyOwner
setExcludedFromTransferTaxBatch	External	✓	onlyOwner
totalFees	Public		-
_hasLimits	Private		
tokenFromReflection	Public		-
_approve	Private	1	
adjustTaxes	Internal	✓	
_transfer	Internal	1	
swapAndLiquify	Private	1	lockTheSwap
sendBNBout	Internal	1	
swapTokensForEth	Private	1	
_checkLiquidityAdd	Private	1	
_finalizeTransfer	Private	✓	
getBNBFee	Internal		
_getValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
_takeReflect	Private	✓	



_takeLiquidity	Private	✓	
_takeBurn	Private	✓	

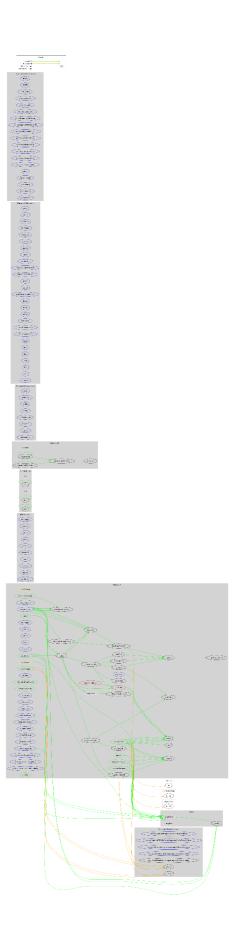


Inheritance Graph





Flow Graph





Summary

Al Minion contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. There are some functions that can be abused by the owner like stopping transactions. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats. There is also a limit of max 20% buy, sell, and transfer fees.



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Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.

