

MessaageBit

Smart Contract Audit Report





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AUDITED DETAILS

Audited Project

Project name	Token ticker	Blockchain	
MessaageBit	МВ	Binance Smart Chain	

Addresses

Contract address	0xb6e751BDD09d2d91452A1082D5D0f31cCd260924
Contract deployer address	0xBDfF438acc08065daB973B088e4dd7af7f0C45A4

Project Website

https://www.messaagebit.com/

Codebase

https://bscscan.com/address/0xb6e751BDD09d2d91452A1082D5D0f31cCd260924#code



SUMMARY

MessaageBit provides Messages App, crypto analytics and portfolio management for the BNB Chain tokens and aims to improve crypto Apps experience. Comming products: - Bridge - App - Swap - Lending Dapps: - CMC & CG - Big call & AMA groups been onboarded. Onder, Caesar, Gollum, VatorCapital, Cryptocat, Bossy, Future Lounge, Procify Ads, DefiApetalk, Sherlock, Shadowcall, HulkGems, Phoniex, Doxxed Always, PythagorasDev

Contract Summary

Documentation Quality

MessaageBit provides a very good documentation with standard of solidity base code.

• The technical description is provided clearly and structured and also dont have any high risk issue.

Code Quality

The Overall quality of the basecode is standard.

 Standard solidity basecode and rules are already followed by MessaageBit with the discovery of several low issues.

Test Coverage

Test coverage of the project is 100% (Through Codebase)

Audit Findings Summary

- SWC-100 SWC-108 | Explicitly define visibility for all state variables on lines 737.
- SWC-101 | It is recommended to use vetted safe math libraries for arithmetic operations consistently on lines 125, 157, 180, 181, 216, 252, 479, 720, 720, 720, 720, 721, 721, 740, 740, 740, 740, 741, 741, 741, 741, 872, 874, 911, 957, 976, 982 and 874.
- SWC-103 | Pragma statements can be allowed to float when a contract is intended on lines 26.
- SWC-110 SWC-123 | It is recommended to use of revert(), assert(), and require() in Solidity, and the new REVERT opcode in the EVM on lines 873, 874, 874, 958, 958, 959, 960, 1085 and 1086.



CONCLUSION

We have audited the MessaageBit project released on January 2023 to discover issues and identify potential security vulnerabilities in MessaageBit Project. This process is used to find technical issues and security loopholes which might be found in the smart contract.

The security audit report provides a satisfactory result with some low-risk issues.

The issues found in the MessaageBit smart contract code do not pose a considerable risk. The writing of the contract is close to the standard of writing contracts in general. The low-risk issues found are some arithmetic operation issues, a floating pragma is set, a state variable visibility is not set and out of bounds array access which the index access expression can cause an exception in case of the use of an invalid array index value.



AUDIT RESULT

Article	Category	Description	Result
Default Visibility	SWC-100 SWC-108	Functions and state variables visibility should be set explicitly. Visibility levels should be specified consciously.	ISSUE FOUND
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	
Outdated Compiler Version	SWC-102	It is recommended to use a recent version of the Solidity compiler.	PASS
Floating Pragma	SWC-103	Contracts should be deployed with the same compiler version and flags that they have been tested thoroughly.	ISSUE FOUND
Unchecked Call Return Value	SWC-104	The return value of a message call should be checked.	PASS
SELFDESTRUCT Instruction	SWC-106	The contract should not be self-destructible while it has funds belonging to users.	PASS
Reentrancy	SWC-107	Check effect interaction pattern should be followed if the code performs recursive call.	PASS
Assert Violation	SWC-110 SWC-123	Properly functioning code should never reach a failing assert statement.	ISSUE FOUND
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Callee	SWC-112	Delegate calls should only be allowed to trusted addresses.	
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	



Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	
Signature Unique ID	SWC-117 SWC-121 SWC-122	Signed messages should always have a unique id. A transaction hash should not be used as a unique id.	
Shadowing State Variable	SWC-119	State variables should not be shadowed.	
Weak Sources of Randomness	SWC-120		PASS
Incorrect identical functions, a developer should carefully specify		When inheriting multiple contracts, especially if they have identical functions, a developer should carefully specify inheritance in the correct order. The rule of thumb is to inherit contracts from more /general/ to more /specific/.	PASS



SMART CONTRACT ANALYSIS

Started	Tuesday Jan 10 2023 03:23:11 GMT+0000 (Coordinated Universal Time)		
Finished	Wednesday Jan 11 2023 08:18:58 GMT+0000 (Coordinated Universal Time)		
Mode	Standard		
Main Source File	MessaageBit.sol		

Detected Issues

ID	Title	Severity	Status
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "/" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "+" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "%" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged



SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "*" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "-" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "++" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged
SWC-101	ARITHMETIC OPERATION "**" DISCOVERED	low	acknowledged



SWC-101	COMPILER-REWRITABLE " <uint> - 1" DISCOVERED</uint>	low	acknowledged
SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
SWC-108	STATE VARIABLE VISIBILITY IS NOT SET.	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
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SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged
SWC-110	OUT OF BOUNDS ARRAY ACCESS	low	acknowledged



LINE 125

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
function add(uint256 a, uint256 b) internal pure returns (uint256) {
  uint256 c = a + b;
  require(c >= a, "SafeMath: addition overflow");
  return c;
  return c;
}
```



LINE 157

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
156  require(b <= a, errorMessage);
157  uint256 c = a - b;
158
159  return c;
160  }
161</pre>
```



LINE 180

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
179
180    uint256    c = a * b;
181    require(c / a == b, "SafeMath: multiplication overflow");
182
183    return c;
184
```



LINE 181

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
180    uint256    c = a * b;
181    require(c / a == b, "SafeMath: multiplication overflow");
182
183    return c;
184    }
185
```



LINE 216

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
215    require(b > 0, errorMessage);
216    uint256 c = a / b;
217    // assert(a == b * c + a % b); // There is no case in which this doesn't hold
218
219    return c;
220
```



LINE 252

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
251 require(b != 0, errorMessage);
252 return a % b;
253 }
254 }
255
256
```



LINE 479

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
478  _owner = address(0);
479  _lockTime = now + time;
480  emit OwnershipTransferred(_owner, address(0));
481  }
482
483
```



LINE 720

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
719 uint256 private constant MAX = ~uint256(0);
720 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724
```



LINE 720

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
719 uint256 private constant MAX = ~uint256(0);
720 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724
```



LINE 720

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
719 uint256 private constant MAX = ~uint256(0);
720 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724
```



LINE 720

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
719 uint256 private constant MAX = ~uint256(0);
720 uint256 private _tTotal = 10000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724
```



LINE 721

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
720 uint256 private _tTotal = 1000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724 string private _name = "MessaageBit";
725
```



LINE 721

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
720 uint256 private _tTotal = 1000000000 * 10**6 * 10**9;
721 uint256 private _rTotal = (MAX - (MAX % _tTotal));
722 uint256 private _tFeeTotal;
723
724 string private _name = "MessaageBit";
725
```



LINE 740

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
739
740 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744
```



LINE 740

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
739
740 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744
```



LINE 740

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
739
740 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744
```



LINE 740

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
739
740 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741 uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743 event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744
```



LINE 741

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
740  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744  event SwapAndLiquifyEnabledUpdated(bool enabled);
745
```



LINE 741

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
740  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744  event SwapAndLiquifyEnabledUpdated(bool enabled);
745
```



LINE 741

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
740  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744  event SwapAndLiquifyEnabledUpdated(bool enabled);
745
```



LINE 741

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
740  uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741  uint256 private numTokensSellToAddToLiquidity = 500000 * 10**6 * 10**9;
742
743  event MinTokensBeforeSwapUpdated(uint256 minTokensBeforeSwap);
744  event SwapAndLiquifyEnabledUpdated(bool enabled);
745
```



LINE 872

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
871 require(_isExcluded[account], "Account is already excluded");
872 for (uint256 i = 0; i < _excluded.length; i++) {
873    if (_excluded[i] == account) {
874        _excluded[i] = _excluded.length - 1];
875        _tOwned[account] = 0;
876</pre>
```



LINE 874

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
if (_excluded[i] == account) {
874    _excluded[i] = _excluded[_excluded.length - 1];
875    _tOwned[account] = 0;
876    _isExcluded[account] = false;
877    _excluded.pop();
878
```



LINE 911

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol



LINE 957

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
956    uint256 tSupply = _tTotal;
957    for (uint256 i = 0; i < _excluded.length; i++) {
958    if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
959    rSupply = rSupply.sub(_rOwned[_excluded[i]]);
960    tSupply = tSupply.sub(_tOwned[_excluded[i]]);
961
```



LINE 976

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
975 return _amount.mul(_taxFee).div(
976    10**2
977    );
978  }
979
980
```



SWC-101 | ARITHMETIC OPERATION "**" DISCOVERED

LINE 982

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
981 return _amount.mul(_liquidityFee).div(
982    10**2
983    );
984    }
985
986
```



SWC-101 | COMPILER-REWRITABLE "<UINT> - 1" DISCOVERED

LINE 874

low SEVERITY

This plugin produces issues to support false positive discovery within mythril.

Source File

- MessaageBit.sol

```
if (_excluded[i] == account) {
874    _excluded[i] = _excluded[_excluded.length - 1];
875    _tOwned[account] = 0;
876    _isExcluded[account] = false;
877    _excluded.pop();
878
```



SWC-103 | A FLOATING PRAGMA IS SET.

LINE 26

low SEVERITY

The current pragma Solidity directive is ""^0.6.12"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source File

- MessaageBit.sol

```
25
26 pragma solidity ^0.6.12;
27 // SPDX-License-Identifier: Unlicensed
28 interface IERC20 {
29
30
```



SWC-108 | STATE VARIABLE VISIBILITY IS NOT SET.

LINE 737

low SEVERITY

It is best practice to set the visibility of state variables explicitly. The default visibility for "inSwapAndLiquify" is internal. Other possible visibility settings are public and private.

Source File

- MessaageBit.sol

```
736
737 bool inSwapAndLiquify;
738 bool public swapAndLiquifyEnabled = true;
739
740 uint256 public _maxTxAmount = 5000000 * 10**6 * 10**9;
741
```



LINE 873

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
872  for (uint256 i = 0; i < _excluded.length; i++) {
873   if (_excluded[i] == account) {
874    _excluded[i] = _excluded[_excluded.length - 1];
875   _tOwned[account] = 0;
876   _isExcluded[account] = false;
877</pre>
```



LINE 874

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
if (_excluded[i] == account) {
874    _excluded[i] = _excluded[_excluded.length - 1];
875    _tOwned[account] = 0;
876    _isExcluded[account] = false;
877    _excluded.pop();
878
```



LINE 874

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
if (_excluded[i] == account) {
874    _excluded[i] = _excluded[_excluded.length - 1];
875    _tOwned[account] = 0;
876    _isExcluded[account] = false;
877    _excluded.pop();
878
```



LINE 958

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
957 for (uint256 i = 0; i < _excluded.length; i++) {
958   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
959   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
960   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
961  }
962
```



LINE 958

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
957 for (uint256 i = 0; i < _excluded.length; i++) {
958   if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return
(_rTotal, _tTotal);
959   rSupply = rSupply.sub(_rOwned[_excluded[i]]);
960   tSupply = tSupply.sub(_tOwned[_excluded[i]]);
961  }
962
```



LINE 959

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
958 if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);

959    rSupply = rSupply.sub(_rOwned[_excluded[i]]);

960    tSupply = tSupply.sub(_tOwned[_excluded[i]]);

961    }

962    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);

963
```



LINE 960

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
959  rSupply = rSupply.sub(_rOwned[_excluded[i]]);
960  tSupply = tSupply.sub(_tOwned[_excluded[i]]);
961  }
962  if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
963  return (rSupply, tSupply);
964</pre>
```



LINE 1085

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
address[] memory path = new address[](2);
path[0] = address(this);

path[1] = uniswapV2Router.WETH();

1087

1088    _approve(address(this), address(uniswapV2Router), tokenAmount);

1089
```



LINE 1086

low SEVERITY

The index access expression can cause an exception in case of use of invalid array index value.

Source File

- MessaageBit.sol

```
1085 path[0] = address(this);
1086 path[1] = uniswapV2Router.WETH();
1087
1088 _approve(address(this), address(uniswapV2Router), tokenAmount);
1089
1090
```



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This is a limited report on our findings based on our analysis, in accordance with good industry practice as of the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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Sysfixed is a blockchain security certification organization established in 2021 with the objective to provide smart contract security services and verify their correctness in blockchain-based protocols. Sysfixed automatically scans for security vulnerabilities in Ethereum and other EVM-based blockchain smart contracts. Sysfixed a comprehensive range of analysis techniques—including static analysis, dynamic analysis, and symbolic execution—can accurately detect security vulnerabilities to provide an in-depth analysis report. With a vibrant ecosystem of world-class integration partners that amplify developer productivity, Sysfixed can be utilized in all phases of your project's lifecycle. Our team of security experts is dedicated to the research and improvement of our tools and techniques used to fortify your code.