



FomoBSC

# Smart Contract Audit Report

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# AUDITED DETAILS

## Audited Project

Project name	Token ticker	Blockchain
FomoBSC	FOMO	BSC

## Addresses

Contract address	0xb93Dab50c96B90C63B590bcafa91Bf2FDd8403AF
Contract deployer address	0x4b1059d2cCeAB40326C6f78CA6C0486d6733bf27

## Project Website

<a href="https://fomobsc.io/">https://fomobsc.io/</a>
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## Codebase

<a href="https://bscscan.com/address/0xb93Dab50c96B90C63B590bcafa91Bf2FDd8403AF#contracts">https://bscscan.com/address/0xb93Dab50c96B90C63B590bcafa91Bf2FDd8403AF#contracts</a>
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# SUMMARY

One-stop crypto investment, social intelligence, state-of-the-art community driven resource app with defi built tools for BNBCChain. Think utility, Discover FomoBSC— Projects incubator & accelerator program with market management & cohort staking pools. Ten million supply 0 tax token, with a 3% utility accrued fee for token development. FomoBSC is developed as an improved version of the Ingress App.

## Contract Summary

### Documentation Quality

This project has a standard of documentation.

- Technical description provided.

### Code Quality

The quality of the code in this project is up to standard.

- The official Solidity style guide is followed.

### Test Scope

Project test coverage is 100% ( Via Codebase ).

## Audit Findings Summary

### Issues Found

- SWC-101 | Arithmetic operation issues discovered on lines 330, 353, 386, 389, 411, 414, 440, 442, and 492.
- SWC-103 | A floating pragma is set on lines 12, 97, 126, 153, 543, 626, 643, 663, 689, and 709, the current pragma Solidity directive is `^0.8.0`.

## CONCLUSION

We have audited the FomoBSC project which has released on December 2022, to discover issues and identify potential security vulnerabilities in FomoBSC Project. This process is used to find technical issues and security loopholes that find some common issues in the code.

The security audit report produced satisfactory results with low-risk issues.

The most common issue found in writing code on contracts that do not pose a big risk, writing on contracts is close to the standard of writing contracts in general. The low-level issues found are some arithmetic operation issues and a floating pragma is set in multiple lines.

# 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.	PASS
Integer Overflow and Underflow	SWC-101	If unchecked math is used, all math operations should be safe from overflows and underflows.	ISSUE FOUND
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
Check-Effect Interaction	SWC-107	Check-Effect-Interaction pattern should be followed if the code performs ANY external call.	PASS
Assert Violation	SWC-110	Properly functioning code should never reach a failing assert statement.	PASS
Deprecated Solidity Functions	SWC-111	Deprecated built-in functions should never be used.	PASS
Delegate call to Untrusted Caller	SWC-112	Delegatecalls should only be allowed to trusted addresses.	PASS
DoS (Denial of Service)	SWC-113 SWC-128	Execution of the code should never be blocked by a specific contract state unless required.	PASS
Race Conditions	SWC-114	Race Conditions and Transactions Order Dependency should not be possible.	PASS

Authorization through tx.origin	SWC-115	tx.origin should not be used for authorization.	PASS
Block values as a proxy for time	SWC-116	Block numbers should not be used for time calculations.	PASS
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.	PASS
Shadowing State Variable	SWC-119	State variables should not be shadowed.	PASS
Weak Sources of Randomness	SWC-120	Random values should never be generated from Chain Attributes or be predictable.	PASS
Incorrect Inheritance Order	SWC-125	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	Thu Dec 22 2022 23:18:11 GMT+0000 (Coordinated Universal Time)
Finished	Fri Dec 23 2022 23:18:11 GMT+0000 (Coordinated Universal Time)
Mode	Standard
Main Source File	StandardBEP20.sol

## Detected Issues

[illegible]



SWC-103	A FLOATING PRAGMA IS SET.	low	acknowledged
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# SWC-101 | ARITHMETIC OPERATION "+" DISCOVERED

LINE 330

## low SEVERITY

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

## Source File

- StandardBEP20.sol

## Locations

```
329     address owner = _msgSender();
330     _approve(owner, spender, allowance(owner, spender) + addedValue);
331     return true;
332 }
333
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 353

### low SEVERITY

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

### Source File

- StandardBEP20.sol

### Locations

```
352     unchecked {  
353         _approve(owner, spender, currentAllowance - subtractedValue);  
354     }  
355  
356     return true;
```

## SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 386

### low SEVERITY

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

### Source File

- StandardBEP20.sol

### Locations

```
385     unchecked {  
386         _balances[from] = fromBalance - amount;  
387         // Overflow not possible: the sum of all balances is capped by totalSupply, and the  
sum is preserved by  
388         // decrementing then incrementing.  
389         _balances[to] += amount;
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 389

### low SEVERITY

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

### Source File

- StandardBEP20.sol

### Locations

```
388 // decrementing then incrementing.  
389 _balances[to] += amount;  
390 }  
391  
392 emit Transfer(from, to, amount);
```

## SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 411

### low SEVERITY

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

### Source File

- StandardBEP20.sol

### Locations

```
410
411  _totalSupply += amount;
412  unchecked {
413    // Overflow not possible: balance + amount is at most totalSupply + amount, which
    is checked above.
414    _balances[account] += amount;
```

# SWC-101 | ARITHMETIC OPERATION "+=" DISCOVERED

LINE 414

## low SEVERITY

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

## Source File

- StandardBEP20.sol

## Locations

```
413 // Overflow not possible: balance + amount is at most totalSupply + amount, which
    is checked above.
414 _balances[account] += amount;
415 }
416 emit Transfer(address(0), account, amount);
417
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 440

## low SEVERITY

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

## Source File

- StandardBEP20.sol

## Locations

```
439     unchecked {  
440         _balances[account] = accountBalance - amount;  
441         // Overflow not possible: amount <= accountBalance <= totalSupply.  
442         _totalSupply -= amount;  
443     }
```



# SWC-101 | ARITHMETIC OPERATION "-=" DISCOVERED

LINE 442

## low SEVERITY

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

## Source File

- StandardBEP20.sol

## Locations

```
441 // Overflow not possible: amount <= accountBalance <= totalSupply.  
442 _totalSupply -= amount;  
443 }  
444  
445 emit Transfer(account, address(0), amount);
```

# SWC-101 | ARITHMETIC OPERATION "-" DISCOVERED

LINE 492

## low SEVERITY

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

## Source File

- StandardBEP20.sol

## Locations

```
491     unchecked {  
492         _approve(owner, spender, currentAllowance - amount);  
493     }  
494 }  
495 }
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 12

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
11
12  pragma solidity ^0.8.0;
13
14  /**
15   * @dev Interface of the ERC20 standard as defined in the EIP.
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 97

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
96
97  pragma solidity ^0.8.0;
98
99  /**
100   * @dev Interface for the optional metadata functions from the ERC20 standard.
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 126

### low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardBEP20.sol

### Locations

```
125
126  pragma solidity ^0.8.0;
127
128  /**
129   * @dev Provides information about the current execution context, including the
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 153

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
152
153  pragma solidity ^0.8.0;
154
155
156
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 543

### low SEVERITY

The current pragma Solidity directive is ""^0.8.0"". 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

- StandardBEP20.sol

### Locations

```
542
543  pragma solidity ^0.8.0;
544
545  /**
546   * @dev Contract module which provides a basic access control mechanism, where
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 626

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
625
626  pragma solidity ^0.8.0;
627
628  /**
629   * @title IBEP20
```



## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 643

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
642
643  pragma solidity ^0.8.0;
644
645
646  /**
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 663

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
662
663  pragma solidity ^0.8.0;
664
665  /**
666   * @title ERC20Decimals
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 689

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
688
689  pragma solidity ^0.8.0;
690
691  interface IPayable {
692  function pay(string memory serviceName, bytes memory signature, address wallet)
external payable;
```

## SWC-103 | A FLOATING PRAGMA IS SET.

LINE 709

### low SEVERITY

The current pragma Solidity directive is `""^0.8.0""`. 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

- StandardBEP20.sol

### Locations

```
708
709  pragma solidity ^0.8.0;
710
711
712
```

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